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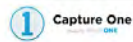
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Capture One overview

Built on the world's best raw processing engine, Capture One Pro is the professional choice in imaging software. It enables photographers to reduce the time and effort required to create stunning, out of the box, images from leading high-end cameras. With a fast and intuitive workflow, it can be customized to fit your unique needs.

It is the world's best raw converter, rendering precise colors and incredible detail, with support for leading high-end cameras. It contains flexible digital asset management, all the essential adjustment tools and professional performance in one integrated solution.



Capture One versions

In total there are eight different Capture One product variants. They are roughly divided into three types:

- **Pro**: A version for all 500+ supported cameras or versions for just Fujifilm, Sony, or Phase One backs.
- **Express**: Free versions for either Fujifilm or Sony
- **Specialized versions**: Enterprise and Cultural Heritage

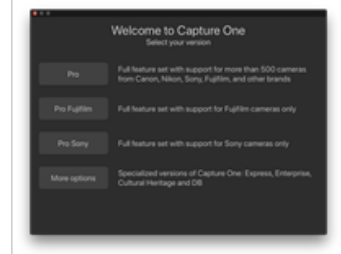
When you launch Capture One 12, you can choose between 3 Pro versions from the Welcome screen (or click More options to select the other product variants):

- **Pro** - Delivers a set of highly advanced image editing tools and includes support for a wide range of RAW files from various makes as well as previously processed JPEGs and TIFFs. It also includes tethered support for numerous Canon, Nikon, and Sony models. This ensures that photographers have the ability to attain the highest level of quality from their files. (See release notes for supported file types).
- **Pro Fujifilm** - Delivers the same functionality as Capture One Pro for Fujifilm cameras only.
- **Pro Sony** - Delivers the same functionality as Capture One Pro for Sony cameras only.

Additional versions

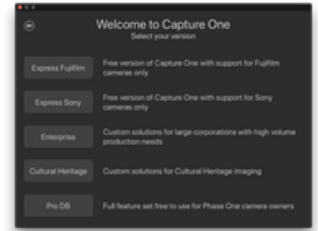
If you did click More options on the prior Welcome screen, you can select one of the additional versions:

- **Express Fujifilm** - A simplified variant of Capture One Pro Fujifilm that omits some features such as tethered shooting, but



is free to use.

- **Express Sony** - A simplified variant of Capture One Pro Sony that omits some features such as tethered shooting, but is free to use.
- **Enterprise** - A fully-featured variant with enterprise-level services for corporations and organizations. For more information go to the [Phase One website](#).
- **Cultural Heritage** - Offers the same feature-set found in Capture One Pro and adds exclusive tools and features designed to aid museums, libraries, archives and other institutions when digitizing a wide range of materials. For Phase One and Mamiya Leaf users. Read about the CH features [here](#).
- **Pro DB (Digital Back)** - Offers the same feature-set found in Capture One Pro with support only for Phase One, Leaf and Mamiya digital backs to help streamline and make any photographer's daily workflow more efficient, whether shooting tethered or not.



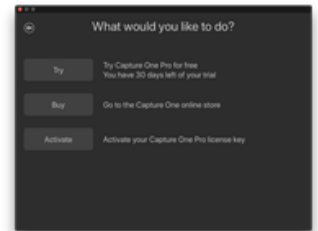
Try, buy or activate

Once you have selected your desired version, you get the option to either use that as a trial for 30 days, buy a license from the Capture One online store, or activate it with a license key that you have bought already.

Capture One typically requires internet connection for activation, however it can be activated when offline if necessary. An internet enabled device such as a smartphone is still required to generate an activation key. For more information, see the section on [Offline activation](#). Capture One Pro DB does not need an internet connection for activation.

This guide describes Capture One for Apple® Macintosh® and it is also applicable to Capture One for Microsoft® Windows®, though some specifics are not listed.

All features tagged with "Pro" in this guide are only accessible in Capture One Pro versions.



Credits and legal information

On Rights

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Ver. 12.0. Last edit, November 2018.

Colorspace images created in CROMiX ColorThink.

Photos by:

Phase One, Alexander Flemming, Niels V. Knudsen

Michael Roscoe, www.roscoephotography.com

Peter Eastway, www.petereastway.com

Paul Fawley, www.photolink.co.uk

Francis Hills, www.francishills.com

On Liability:

The information in this user guide is provided "as is". Under no circumstances, including negligence, shall Phase One be liable for any incidental, special, direct, indirect or consequential damages arising out of or relating to use of the information provided in this guide with or without the software described in the guide.

Trademarks and Acknowledgements

Capture One and Phase One are either registered trademarks or trademarks of Phase One A/S in the European Union and/or other countries. All other trademarks are the property of their respective owners. This product includes DNG technology under license by Adobe Systems Incorporated.



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Helping you to get started

About this Help Site.

The Capture One help site has been designed as a workflow guide, starting with installation and configuration - working through to processing of files to their final output.

The Capture One application has a number of small "?" icons in every tool which will point to the tools appendix in this website. In the tools appendix you will find basic descriptions of the tools purpose and links back into the workflow.

For additional help you can contact our technical support team via the support portal [here](#)

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Setting up Capture One

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System requirements, installation, activation, deactivation, registration and opening.

- System requirements
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- Registration

System requirements

Capture One may run on other and older equipment than that listed below, but to ensure the best possible results we recommend that your computer, at the minimum, conforms to the following specifications:

Microsoft® Windows® minimum requirements

- Intel or AMD CPU with 2 Cores
- 8 GB of RAM
- 10 GB of free hard disk space
- Color calibrated monitor with 1280x800, 24-bit resolution at 96dpi screen ruling
- Windows 7® SP1 64-bit, Windows 8.1® 64-bit, Windows 10® 64-bit*
- Microsoft® .NET Framework version 4.7 (will be installed if not present)

**Support for Capture One 12 on Windows 10 is supported for builds supporting .NET 4.7 - This is currently from Windows 10 Anniversary Update (build 1607) through to April 2018 Update (build 1803).*

Apple® Macintosh® minimum requirements

- Intel CPU with 2 Cores
- 8 GB of RAM
- 10 GB of free hard disk space
- Color calibrated monitor with 1280x800, 24-bit resolution at 96dpi screen ruling
- macOS 10.12.6, macOS 10.13.6 macOS 10.14*

**Support for macOS 10.14 is supported for builds up to 10.14.1*

Recommended system requirements

The above hardware specifications are to be considered as minimum requirements. If you work with high-resolution camera systems or simply want to optimize the performance, please follow the recommendations below:

- CPU with 4 Cores or more
- 16 GB of RAM or more
- Solid State Disk (SSD)
- A fast graphics card from NVIDIA or AMD with 4 GB VRAM or more

Note: Due to the significant additional calculation overhead, systems using 4k/5k monitors will require additional resources in addition to the above recommended spec (both in GPU and CPU power). For a Professional



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experience we recommend at least doubling the specification above for these configurations.

Installation

Capture One 12.x is compatible with the earlier 7.x, 8.x, 9.x, 10.x and 11.x versions. It is recommended to migrate images from 4.x, 5.x and 6.x to version 8.x first, before opening in 12.x. It is generally recommended that you only install one version of Capture One on any single computer. A single-user license allows up to three activations on computers that you own or of which you are the principal user. The license can be used with both Windows and Mac platforms. Multi-user licenses are also available from the Phase One Online Store or from your retailer. Please read the release notes carefully before you install Capture One.



Install on Windows

To install the software please follow the procedure below:

1. Download the application from the Phase One website at www.phaseone.com.
2. Run the executable software install file (.exe).
3. Read and accept the license agreement presented.
4. Follow the on-screen instructions to complete the installation. Capture One will initiate installation of Microsoft® .NET Framework 3.5 if you do not already have it.

Install on Mac OS X

To install the software please follow the procedure below:

1. Download the application from the Phase One website at www.phaseone.com.
2. Open the Capture One disk icon (.dmg).
3. Read and accept the license agreement presented.
4. Drag the Capture One icon to the Applications folder.
5. Open Capture One from your Applications folder.

Manual update to latest version

It is important to keep Capture One software updated. After activation and registration, you will usually receive a newsletter reminder that an update is ready for download, although it can be more convenient to choose Capture One > Check for Updates (Help > Check for Updates on Windows). If your Capture One application is downloaded from www.phaseone.com it will always be the latest version. Installation from a CD version may need to be updated. You can also schedule an automated update if desired. Check Capture One > Preferences (Edit > Preferences on Windows).

Activating Capture One Pro

Capture One is available in four versions. Capture One Pro is the main application and offers compatibility with the widest range of cameras. Capture One Pro for Sony includes all the features of the main application with compatibility for Sony cameras only. Express for Sony has a smaller feature set and is free of charge for Sony camera owners. Capture One Pro DB is provided free of charge for Phase One or Mamiya Leaf users only.

A license code is required to activate Capture One Pro or Capture One Pro for Sony, however a free 30-day trial is available. An Internet connection is necessary to complete the activation. Registration is also required for new customers.

1. Open Capture One from your applications folder. A product dialog opens.
2. Select the product from the choice of four options. When licensing Capture One, select either Pro or Pro for Sony, as appropriate. (After expiry of the 30-day trial go to Capture One > License... or Help > License... on Windows to open the license activation dialog as illustrated.)
3. Type in the license code in the field provided. (You will have been provided with a license code from the Phase One Online Store if you purchased it there, or received the 16-character license code by email when



- purchased from a retailer.)
4. Type in the email address you used, or would like to use, to set-up your Phase One Account and select **Get Profile**.
 5. If you have registered previously, you will be asked for your account password. After verification, the rest of the form will be filled in for you. If you are a new customer, please fill in the rest of the form.
 6. Complete this process by selecting **Activate**.
 7. Your software is now ready for use.

Troubleshooting

Try one of the following resources if you are experiencing any problems with the software:

1. Watch learn.phaseone.com for the latest video tutorials.
2. Visit www.phaseone.com/support for inspiration and troubleshooting.

Offline activation

Capture One Pro users with computers that are permanently offline (e.g., in corporate or secure IT environments), or those who are temporarily offline for any reason, can complete the activation offline. Note that the process still requires an internet-enabled device (e.g., a smartphone) to generate an activation key.

1. Open Capture One on the offline computer that you want to activate. If the Activation dialog doesn't automatically open, from the main menu go Capture One>License>Manual Activation (Mac), or Help>License Information>Manual Activation (Windows).
2. From the **Activation** dialog, type in your license code. This will generate a **Registration Key**.
3. Using an internet-enabled device, log in to the [My Pages section of the Phase One website](#).
4. Enter the key in the **Registration Key** field and select the **Generate Activation Key** button.
5. Copy the generated **Activation Key** to the offline Activation dialog on the offline computer, and press **Activate**.
6. Your software is now ready for use.



Deactivation

To deactivate Capture One from a computer, an internet connection is required. The application will return to Trial Mode once deactivated. When the trial period has expired all current and pending processing will be cancelled. You will need to reactivate Capture One to continue working with it.

1. Open the License dialog box via the menu Capture One > License (Help > License on Windows).
2. Press the Deactivate button.
3. Confirm that you want to perform the deactivation.
4. After deactivation, you can reactivate Capture One on another computer.



Registration

Register your license to authenticate your installed software. Registration will allow full usage of your Capture One version.

The Online registration automatically registers your license key. When this is validated, it will be kept alongside with information on your computer platform, ID and IP numbers. Phase One keeps all information confidential, according to EU law and international standards. For more information on the license, please read the License Agreement.

The registration of the software will create a personal profile on www.phaseone.com. This profile will provide the opportunity to register your hardware/software and to contact Phase One for any support or sales related questions.

How do I register my hardware product?



1. Attach a camera and a dialog box will automatically open and ask if you would like to register your product.
2. Click 'Yes' in the Registration dialog box and follow the procedure; this will help in future support cases as well as track ownership of the product.

Can I change my registration?

It is possible to change the priority and even remove the registration completely.

1. Select the Digital Back that you wish to change updating priorities on.
2. Rearrange by using the arrows icons.

If a digital back is removed completely you will have the option of re-registering it the next time you connect the back to Capture One.

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Quick Start Guide

Basic workflow overview.

First [activate](#) Capture One, then follow this guide to get quickly up and running with the software. (Click on the links for more information about each tool and feature).

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Opening Capture One for the first time

You must first choose between a Catalog or a Session to begin importing and working in Capture One.

A Catalog is more suited to creating or maintaining an existing image library and is ideal for large, on-going projects. Although you can create numerous Catalogs, a Session is a more convenient when working with smaller, individual projects; for example, you can simply create a separate Session folder for each download from a memory card, which you can name by date or project as per your existing naming strategy.

However, you are not tied using one type of image management system over the other. You can create as many as you like (depending on disk space) and can switch between the different types at anytime.

1. After opening and activating Capture One, you will be presented with a simple dialog with two workflow choices:
 - o **I am New to Capture One** - select this if you are unfamiliar with Capture One and want to open a Catalog.
 - o **I know Capture One** - select this if you're familiar with either Catalogs or Sessions. You will be presented with a second dialog with the option to create a new Catalog (or a new Session if you prefer, see [here](#) for more details).
2. A new document (i.e., Catalog/Session) is created and named (this can be renamed at a later date, if necessary). After creating a new document, you can import files from your card reader, connected camera, or folder. See the [Importing](#) section for more information.



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[Video: Capture One Pro Overview](#)

Get an overview of Capture One Pro 12 in this video tutorial. (Click on the icon to the right). Capture One Pro is the professional choice in imaging software. It gives photographers the highly responsive, precision tools they need to create stunning out-of-the-box images from leading high-end cameras.



Getting started

The user interface consists of four key sections:

1. The **Browser** displays different views of image thumbnails, as well as useful functions to aid workflow including rating, naming sorting and more.
2. The **Viewer** delivers a high quality rendition of your chosen selected image. All changes made to the image will be shown instantly.
3. The **Tool Tabs** give access to all of the core tools needed to edit images, such as color balance, exposure and sharpness.
4. The Menu and **Tool Bar** provide structured access to software functions and features found throughout the application.



Create a Catalog

A Catalog is the primary method of file organization and viewing in Capture One Pro. A catalog contains all the information needed for Capture One Pro to find and display any image added to the Catalog. The location of the actual image files can be anywhere on your computer or an external disk but they can also be placed inside the catalog file. Image files are located and accessed in the Library tool. Image files need to be imported into a catalog. It is also possible to shoot directly into a catalog from a supported tethered camera.

1. Create a new Catalog by selecting File > New Catalog...
2. A dialog box will appear. Fill in the Name field and select a Location for the catalog.



Importing images

Before you import images, first create a new catalog or session. Go to File>New Catalog or New Session. Fill in the Name field, select a location and press OK.

There are three primary ways to import image files:

1. Connect a card reader to your computer and insert a memory card. Capture One will open the import window automatically.
2. Import files from your computer or an external hard drive by choosing File>Import images... Browse and select a folder containing raw images from the Location drop down menu.
The Import Images dialog box has a number of automated options that can be selected according to your workflow preference. These include an image backup tool, file naming functionality and add caption and copyright information fields.
3. Shoot **tethered** from a supported DSLR or Digital Back. Images will go to the active Catalog/Session by default.



Capture

The **Capture tool tab** is your gateway to tethered shooting with a Phase One digital back or supported DSLR.

Connect a camera to your computer via a FireWire or a USB cable. This tool tab has a host of features to aid workflow:

- Adjust your camera exposure settings remotely, apply adjustments and multiple styles during capture. Use the Camera tool to alter ISO and White Balance settings and fire the shutter of a connected camera or



activate its Live View functionality.

- Use the Capture Pilot tool/app to connect Capture One Pro to an iPad, iPod Touch and iPhone. The Capture Pilot app lets you present, rate and capture image files on an iOS device.
- The Capture Pilot tool also has a web function that lets you view, rate and color tag captured images from a web browser on a computer, Android (mobile device) or Windows Phone operating system.

Color

Capture One provides a number of tools to adjust colors. The tools are designed to support your workflow when handling specific issues like [white balance](#) and [skin tone](#).

The [Color tool tab](#) and its functionality should always be the cornerstone of your image editing workflow. The Color Editor enables users to select and adjust a narrow color spectrum without affecting other colors in an image.

Tip: Attain neutral colors by capturing a test shot with a grey card during a photo shoot.



Exposure

Use the Capture One [Exposure](#) tool to adjust exposure, contrast, brightness and saturation.

Try the [High Dynamic Range tool](#) to remedy images with extreme highlights and deep shadows. Use the powerful Levels and Curve tools to fine-tune exposures or add more punch to an image with the Clarity sliders.



Editing images

Try out the [Variants function](#) while editing images to get a preview of the selected image with adjustments applied. Use Variants to experiment with different image adjustments.

Press F3/F8 (Mac/Windows) to get a Clone Variant of a selected image. (Alternatively, Go to Image>Clone Variant). Press F2/F7 (Mac/Windows) to get a New Variant. Variants are not duplicates of your original RAW files, merely rendered versions of them and so occupy very little hard disk space.



Lens Correction

Use the [Lens Correction tool](#) to minimize chromatic aberration, purple fringing, distortion, lightness and sharpness falloff. Make creative effects using the Vignetting tool.



Crop

The [Crop tool](#) enables freehand and fixed ratio crop options. It is even possible to crop outside the image area. Drag the crop mask in the Viewer to make composition adjustments at anytime during the editing process.



Focus and sharpening

Use the tools located within the [Details Tool tab](#) to verify or modify the sharpness of the image. Always check sharpness at a 100% zoom view. First adjust the [Radius and Amount sliders](#), and then alter Threshold value as required.



Layers and Local Adjustments

There are several image editing tools available to work on local adjustments with the [Layers](#) tool that allow you to create layers and mask to adjust targeted areas of an image. Exposure, Sharpening, Clarity, Moiré, HDR, Noise Reduction, White Balance, Levels, Color Balance and the Color Editor can be applied as a layer. The selected area is defined using a gradient mask or a brush where you can adjust the hardness and size according to your editing needs.



Export Originals

There are two export image options; Go to File>Export and choose either Originals or the Variant option.

Export Originals lets you export original RAW images with or without adjustments to a folder location on your computer or external hard drive etc. (Check mark the Include Adjustments option according to you preference). Press Export Original to complete the process.



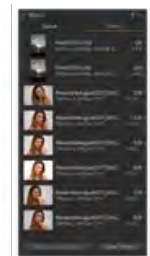
Export Variants

Export Variants is a quick way to export a processed image. Go to the Store Files drop down menu and choose a location. Name your file, select a format and adjust the Quality slider as desired and press Export Variants to complete the process.



Batch

Go to the Batch tool tab to view images that are in the line and about to be processed. You can even reprocess images directly from the history tab as long as the original files are still available.



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User Interface

The section covers the user interface make up, customization of the interface and tool descriptions

User Interface Overview

The main Capture One User Interface elements are a Tool Tab bar, a set of Cursor tools, a Viewer and an Image Browser.

Viewing Images

Capture One provides a wide range of possible ways to view and inspect images. Users can customize the Image Viewer and the Image Browser to fit the needs of your particular workflow.

Toolbar

The interface is divided into a number of elements, all providing a set of tools. The Toolbar provides graphical shortcuts to some of the most useful functions of Capture One.

Tool Tabs

Each Tool Tab contains a number of utilities that include a set of tools to adjust image files.



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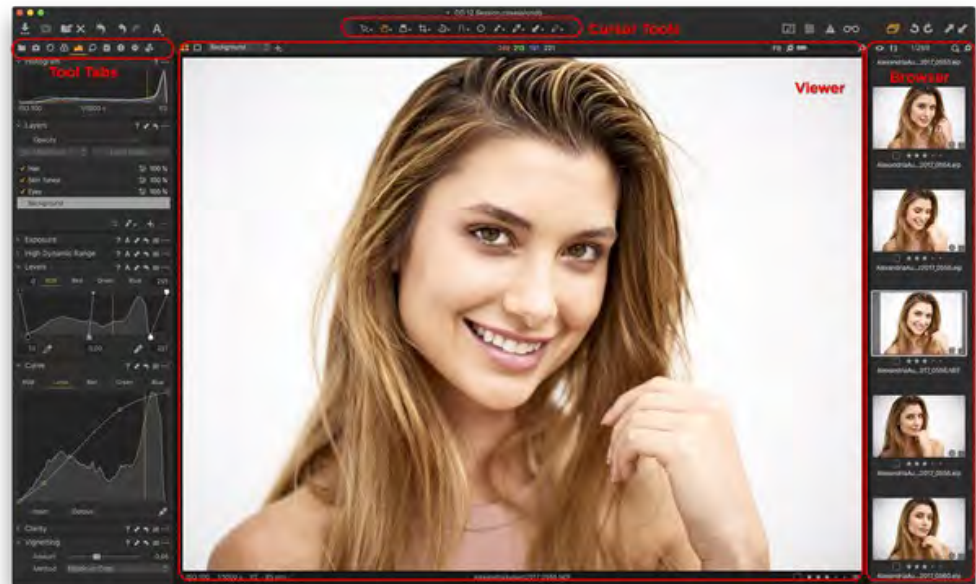


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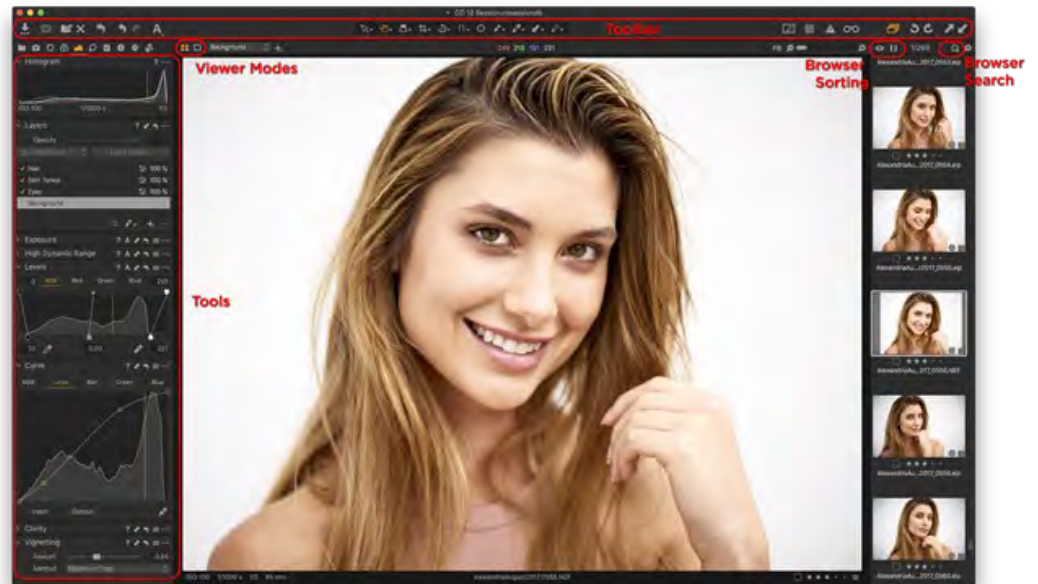
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Basic overview



- The **Viewer** displays a large preview of one image or a number of selected images.
- The Image **Browser** displays thumbnails of selected images from a folder, Album, Smart Album, Project, Group as well as a Catalog.
- The **Cursor tools** provide easy access to a number of closely related sub-features, referred to as Tools.
- The **Tool Tabs** give access to all of the core tools needed to edit images, such as color balance, exposure and sharpness.

Overview in detail



- The **Toolbar** provides graphical shortcuts to some of the most useful functions of Capture One.
- **Tools**: Each **tool tab** has a number of related tools to help adjust an image file.
- **Viewer Modes**: Access the Multi view, Primary view and Toggle Proof Margin Viewer modes.
- **Browser Modes**: Access and select the Filmstrip, Grid View and List View browser thumbnail viewing options.
- **Search the Browser**: Insert text into the search field at the top of the Browser to filter
- **Sort the Browser**: Choose the order of thumbnails in the Browser from a number of criteria including: name, star rating, ISO etc.

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Viewing Images

Capture One provides a wide range of possible ways to view and inspect images. Users can customize the Image Viewer and the Image Browser to fit the needs of your particular workflow.

The Viewer

The Viewer displays a large preview of one image or a number of selected images.

The Browser

The Image Browser displays thumbnails of selected images from a folder, Album, Smart Album, Project, Group and a Catalog.

Workspace Layouts

Capture One features a highly customizable layout to make the most of the screen space.

Full Screen Mode

The Full Screen mode displays an uncluttered view of your image and you retain access to the browser and all the tools you need.

Focus Checking

Capture One offers a number of tools to closely examine images for focus accuracy, dust specks, optical flaws or any other issues.

Slideshow

The Slideshow feature allows you to present photos or videos with transitions in a full screen view.

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The Viewer

VIEWING IMAGES / VIEWING PHOTOS / THUMBNAILS / IMAGE BROWSER / VIEWING VIDEOS / LOUPE / FULL SCREEN / SLIDESHOW / CAPTURE PILOT

The Viewer displays a large preview of one image or a number of selected images.

- Introduction to the Viewer
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- Selecting Proof Margin
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- RGB, Lightness, Exposure and rating information
- Zooming multiple images simultaneously
- Viewing videos

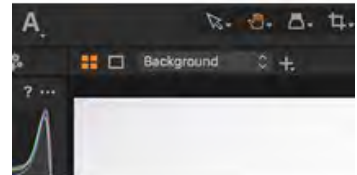
Introduction to the Viewer

The Viewer is a fundamental element of the Capture One user interface. The Viewer window enables users to view image files and check the effect of any adjustments that have been made. It is also easy to make image comparisons. Up to 12 different images can be selected and seen in the Viewer at one time, making it effortless to compare images side-by-side. By adopting a View mode button, the Viewer enables you to view a single image or multiple images simply by toggling between them. It is an ideal way to assess a large number of images in a short space of time.



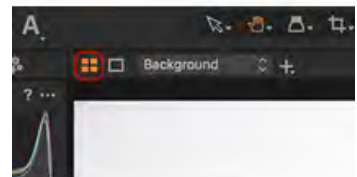
The Viewer Modes

The Viewer has three primary viewing modes: **Multi view** (default), **Primary view** and display **Proof Margin**. These modes are accessed from the View menu or by toggling the view mode buttons located in the top-left corner of the Viewer.



Switching between multiple images and a single image

The Multi View mode enables up to 12 images to be simultaneously displayed in the Viewer. The displayed images are selected from the thumbnails in the Browser. However, when you want to switch to view just the primary variant (i.e., the currently selected image with the thick border) in the Viewer, you simply select the Primary View mode. This saves having to deselect all the images in the Browser just to reselect one. Note, when only one image is selected in the Browser, only one image will be displayed in the Viewer, regardless of the mode set. Therefore, for most types of workflow in Capture One, the Multi View mode option can be left selected.



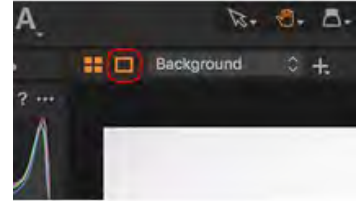
1. From the **View** menu, select **Customize Viewer > Multi View Mode**, or go to the Viewer's tool bar, and click-on the **View** mode (☐ icon). When the **Multi View** mode is enabled, the View mode icon is orange colored. Up to 12 images can be displayed simultaneously in the Viewer, provided they're selected in the Browser. (Note, when more than 12 are selected, only 11 will be displayed.)

2. To display the primary variant from a group selected in the Browser, select the Multi View mode (☐ icon). The Multi View mode is disabled, the icon changes to a silver-gray color, and the **Primary View** mode is enabled.
3. A single image (i.e., the primary variant) will be displayed.
4. To choose another from the group, select it in the Browser.

Selecting Proof Margin

The **Proof Margin** mode enables users to toggle between two different Viewer margin settings. The margin is the distance between the edge of your image and the frame of the Viewer. The Proof Margin option can be used to adjust the distance between multiple images in conjunction with the Multi View mode, or when an single image is displayed, it can be used to view a single image with a print margin. This is especially useful when the Viewer has a white background. These settings are altered from the Preferences window.

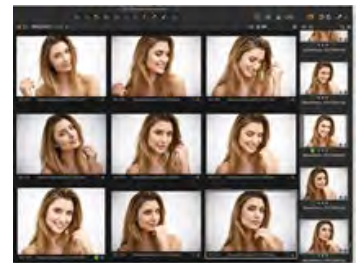
1. From the main menu, Capture One > Preferences... (Edit > Preferences... on Windows). The Preferences window opens.
2. Go to the Appearance tab, under Viewer, and adjust the Margin slider from 3px (default) up to 40px, while observing the effect in the Viewer.
3. The Proof Margin can also be adjusted using the slider from 0 to 100 pixels. (The default is 25px). Note Proof Margin must be enabled first (i.e., the frame icon is orange).
4. To view an image with a white background. Return to the Viewer panel in the Appearance tab, and from the Color drop-down menu, select White.



Selecting and viewing multiple images

To display more than one image at a time in the viewer, ensure the Multi View option (☐ icon) is selected. For most workflows the Multi View option can be left selected. Up to 12 images can be displayed in the Viewer.

1. There are a number of ways to select multiple thumbnails, choose from the following:
 - Click on a single thumbnail, press the shift key, then click on another thumbnail. All the thumbnails in between will also be selected.
 - Click on a single thumbnail, press Cmd/Ctrl (Mac/Windows), and click on another thumbnail. Only the selected thumbnails will be displayed in the Viewer.
 - Go to Select > Select All to select all the thumbnails in the Browser. Alternatively, press Cmd-A/Ctrl+A (Mac/Windows).
2. To deselect the active thumbnails, simply click between them in the Browser. Alternatively, go to Select > Deselect All or press Shift-Cmd-A/Ctrl+Shift+A (Mac/Windows).

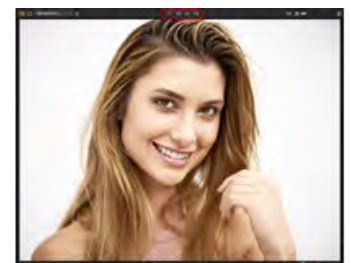


RGB, Lightness, Exposure and rating information

The Viewer has a number of features to aid photographers in postproduction. These include RGB values that are displayed in the center of the Viewer toolbar. (See circled). Note, Capture One Pro can also display, CMYK, or LAB readout values.

The bottom left corner of the Viewer displays camera data that includes the exposure settings (ISO, shutter and f-stop) as well as the focal length of the camera lens used to capture the image.

The bottom right corner displays the color tag and star rating applied to the image. Click on the box or star icons to alter the rating or tag. Find out more about star ratings and color tags [here](#).



Zooming multiple images simultaneously

When you have more than one image in the Viewer, you can zoom all images simultaneously by holding down the Shift key and dragging the zoom slider (in

the top right corner of the Viewer) or by scrolling the mouse wheel.



Viewing videos

Video files are displayed with a movie camera icon (center of the thumbnail) in the Browser. Once the thumbnail has been selected, it is possible to play the video in the Viewer. By moving your mouse cursor over the movie file (in the Viewer) a control panel will appear.

You can view videos in [full screen](#) or add movies to a [slideshow](#). Please note that it is only possible to play videos in this software as Capture One provides no video editing capabilities. If you don't want to see videos appearing in the Browser, select [View>Global filters>Always Hide Movie Files](#).

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The Browser

IMAGE BROWSER / THUMBNAILS / VARIANTS / LOUPE

The Image Browser displays thumbnails of selected images from a folder, Album, Smart Album, Project, Group and a Catalog.

- Browsing thumbnails
- Filmstrip View
- Grid View
- List View
- Browser view modes
- Zoom slider: Thumbnail size
- Learn more
- Thumbnail icon: Adjusted
- Thumbnail icons: Offline and View Only
- Thumbnail icon: Processed
- Thumbnail icons: Appearance Warning and Read Only
- Thumbnail icon: Variants
- Thumbnail icon: Video

Browsing thumbnails

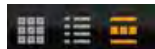
When browsing images you have three different thumbnail view options: Filmstrip, Grid View and List View to suit your personal preference. Choose your preferred thumbnail view option from the Image Browser toolbar. (See thumbnail options circled in blue in the top left corner).

The Image Browser will show thumbnails as they are edited, and the entire view and mask if the image is cropped. Use the Image Browser to navigate an image collection and to select files. A number of actions can be performed in the Image Browser, which include [adding a star rating and color tag](#) and the use of the Loupe function to examine thumbnails in close-up detail.

Tip: It is easy to maximize the Image Browser by hiding [The Viewer](#). Simply select View > Viewer to toggle it off. Select View > Viewer again to add the Viewer.



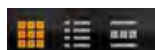
Filmstrip View



Filmstrip View leaves more space for the Image Viewer and supports a fast workflow for sessions with fewer images. Adjust the size of the thumbnails by dragging the browser window up or down. (This will make the size of the thumbnails adapt automatically to fit the selected browser size).

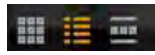


Grid View



Grid View is ideal to browse numerous images quickly especially when using the arrow keys to scroll UP/DOWN or LEFT/RIGHT.

List View



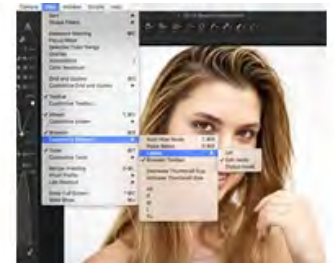
The List View displays more file information (such as aperture and shutter speed settings) and provides a sequential view of the images in a folder or album.



Browser view modes

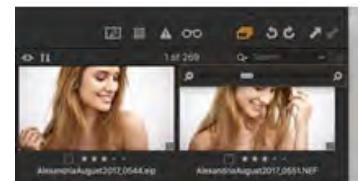
There are several Image Browser viewing options to help you get the best user experience as follows:

- Go to **View > Browser** and ensure it is toggled on to see the Image Browser at the same time as The Viewer. The menu command will toggle it on and off.
- Select **View > Customize Browser > Auto Hide Mode** to enable hiding the Browser from view until you move your cursor to the right of the screen where it will automatically pop up (or to the bottom of the screen if you have selected the **Place Below** option). When you move the cursor away the Browser will disappear from view. You can toggle **Auto Hide Mode** off again.
- Select **View > Customize Browser > Place Below** to change the default position of the browser thumbnails from the right side of the user interface to the bottom. Once selected, this option will change to **Place Right**.
- Go to **View > Customize Browser >** to select a different thumbnail size.
- Go to **View > Customize Browser > Labels** for three options. **Off** will hide the star rating and color tag. **Edit mode** enabling users to alter the star rating and color tag directly in the browser. **Status Mode** displays the star rating and color tag but disables any editing capability.
- Select **View > Customize Browser > Browser Toolbar** to remove the thumbnail view and thumbnail sorting options as well as the search facility and thumbnail zoom slider from the toolbar.



Zoom slider: Thumbnail size

Adjust and set the thumbnail size by dragging the zoom slider (located in the top right corner of the Browser window) or by selecting View>Browser Zoom. Please note that the zoom slider is not present when using the Film Strip mode.

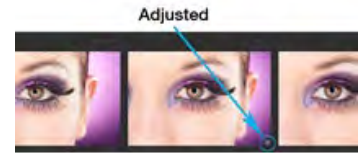


[Learn more](#)

- The Browser has an easy to use **search** function. Find out how to perform a text, color tag or star rating search [here](#).
- Discover how to use the [Loupe Tool](#) in the Image Browser.

Thumbnail icon: Adjusted

Adjusted: An icon will appear as soon as any image adjustments have been applied. All the adjustments are listed within the [Adjustments Clipboard](#).



Thumbnail icons: Offline and View Only

Offline: A question mark icon will appear when an image is offline. Image files that are located inside a catalog and files that are referenced in their current location can be browsed offline. Find out more about [Offline Browsing](#).

View Only: An eye icon means the file has a View Only permission status. This means users have the right to view the image but are unable to make any modification to it.



Thumbnail icon: Processed

Processed: An orange cog icon will appear in a thumbnail while the file is being processed. The icon will turn white once processing is complete.

This icon also signifies that the file has a 'Variant Process History' that the user can access by selecting Adjustments>Process History.



Thumbnail icons: Appearance Warning and Read Only

Appearance Warning: An exclamation mark signifies that there may be a problem with the appearance of an image. This can be caused when an image is rendered using settings from a later version of Capture One.

Read Only: A crossed over pencil will appear in the bottom right corner of an image if a file is unsupported or if you don't have the access rights to edit a file. You might see this read-only icon if you try to edit images files located on a camera or a un-connected external disk.

Note: JPEG files will have a read-only icon if the Enable JPEG Editing option is unchecked.



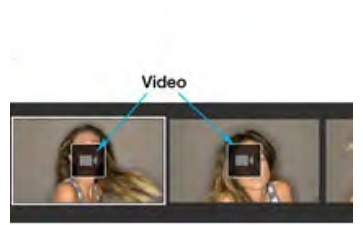
Thumbnail icon: Variants

Variants: Collapse or expand a Variant group if you have a number of variants for a certain image. Click on the small icon in the top left corner of a thumbnail. Find out more about [Variant Groups](#).



Thumbnail icon: Video

Video: Video files are displayed with a movie camera icon in the center of the thumbnail. Once the thumbnail has been selected, it is possible to play the video in the Viewer. Find out more about viewing [videos](#).



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Workspace Layouts

WORKSPACES / CUSTOMIZATION / CUSTOMIZED WORKSPACES

Capture One features a highly customizable layout to make the most of the screen space.

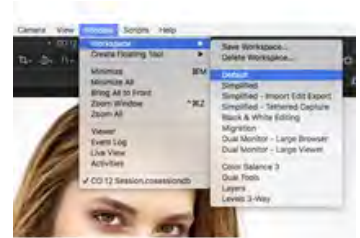
- Default workspace layout
- Displaying the Browser only
- Displaying the Viewer only

Default workspace layout

The default workspace displays the Viewer and Browser together which is meant to fully utilize the available screen space of today's typical 16:9 aspect ratio displays. You can experiment with various workspaces by selecting Window > Workspace and select an option that best fits your workflow. There are two primary layout modes, that can be quickly selected when you to maximize the workspace:

- Viewer only
- Browser only

The Viewer and Browser only modes can be selected in turn from the View menu by selecting the Hide/Show options for the relevant layout mode.



Displaying the Browser only

Capture One allows you to quickly hide the Viewer ($\sim\#V/\text{Ctrl}+\text{Alt}+V$) from the Viewer and Browser mode, so that you can display only the Browser instead. Not only is this useful when visually searching for images when space is restricted, for example on a laptop screen, but it comes into its own on larger displays where a large number of thumbnails can be quickly scanned. When you've found the image you've been looking for, simply select it in the Browser, then double-click or use the same shortcut ($\sim\#V/\text{Ctrl}+\text{Alt}+V$) to cycle back to the Viewer and Browser mode.

When the Browser is in the Auto (hide) mode, cycling back to the Viewer and Browser mode will display the Viewer only.

Displaying the Viewer only

When you want to start work on editing an image and require a larger Viewer, you can simply hide the Browser ($\#B/\text{Ctrl}+B$). Use the same shortcut a second time to toggle back to the default Viewer and Browser mode.

You can read more about Workspaces and how to customize them [here](#).

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Full Screen Mode

FULL SCREEN / SLIDESHOW / VIEWING PHOTOS

The Full Screen mode displays an uncluttered view of your image and you retain access to the browser and all the tools you need.

- [Entering and exiting Full Screen mode](#)
- [Using the Browser in Full Screen mode](#)
- [Using Full Screen mode shortcuts](#)

Entering and exiting Full Screen mode

You can quickly switch between your usual workspace and the Full Screen mode. The Browser, Menu, Toolbar and tools are all hidden for an uncluttered interface and can be revealed when required.

1. From the main menu, select View > Enter Full Screen.
2. Move the cursor to the edges of the screen to reveal the [Browser](#), [toolbar](#), menu and editing [tools](#).
3. To exit the Full Screen mode, move the cursor to the top of the screen where the menu will be revealed and select View > Exit Full Screen or press the Esc key.



Using the Browser in Full Screen mode

The Full Screen mode is typically used to display an unrestricted view of your image in the Viewer, however you can use it to display your thumbnails in the Browser instead. You can use this option when you have a large number of images in a browser session to view, and is especially useful in conjunction with the Viewer on a second screen in a dual-monitor system.

1. Enter Full Screen mode, from the menu, select View > Enter Full Screen.
2. From the View menu, ensure that Browser is toggled on. The Browser opens alongside the Viewer in the same window.
3. From the menu, select View > Viewer to toggle the Viewer off. The Viewer is closed revealing the Browser and its contents.
4. To display the Viewer and Browser on separate screens in a dual-monitor system, select Window > Viewer. The Viewer opens in a separate window. (If the Viewer opens over the Browser, click and drag the Viewer to the second monitor.)



Using Full Screen mode shortcuts

1. To quickly enter the Full Screen mode, click on the (double arrow) icon in the top left corner. (See highlighted example.)
2. To Exit the Full Screen mode, press the Esc key.
3. Toggle between Full Screen and the normal viewer by pressing Ctrl+Cmd+F (Mac) or F11 (Windows). Note, shortcuts can be customized using the [shortcut editor](#).



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Focus Checking

LOUPE / VIEWING IMAGES / FULL SCREEN

Capture One offers a number of tools to closely examine images for focus accuracy, dust specks, optical flaws or any other issues.

- Viewing images with the Loupe
- Changing the Loupe settings
- Viewing a magnified image
- Navigating a magnified image
- Viewing images with the Focus tool
- Checking focus in multiple areas simultaneously
- Confirming focus and sharpness with the Focus Mask

Viewing images with the Loupe

The Loupe tool can be used to check focus or inspect close-up details of an image. When selected, you position the Loupe cursor over the area of the image you want to inspect. It can be used at anytime in the Viewer or Image Browser of the document window.

Chosen from the Cursor Tool Bar, or by using the short-cut P, the Loupe is located directly above the main Viewer. It is the initial cursor of the Zoom Cursor group. Note, as the last used cursor is displayed at the head of the group, it may be necessary to open the group (long-press on the visible cursor) and select the Loupe from the list.

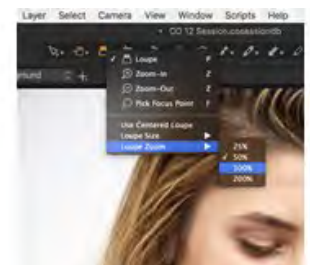
1. From the cursor toolbar, either click the Loupe tool icon directly if displayed, or if it's not, click-and-hold the cursor displayed and select the Loupe from the list. Alternatively, press the P key at any time.
2. Click and hold the pointing-device (e.g., mouse) in the areas of an image where you wish to inspect details.
3. Drag the mouse to move the Loupe. The Loupe can be used within the main Viewer as well as the Image Browser on a thumbnail.
4. To hide the Loupe, click on one of the other cursor tools (e.g., the Pan cursor, or press H).



Changing the Loupe settings

How the Loupe interacts with the image can be customized. You can alter the size and magnification, and choose if you want the Loupe to open directly under the cursor or to the side, for a clearer view.

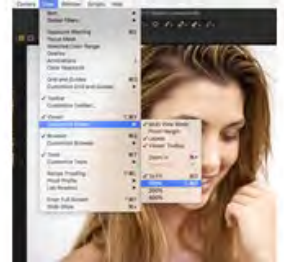
1. Navigate to the cursor toolbar and click-and-hold the Loupe tool icon to open the zoom cursor group. Select a highlighted menu item and release the mouse button.
2. Select **Use Centered Loupe** when you want to operate the Loupe directly under the cursor. If this option is not selected, the Loupe will open next to the cursor so the selected area is visible in the Viewer as well as enlarged in the Loupe.
3. To change the size of the Loupe, select the Loupe Size and then select from one of three settings (Small, Medium or Large), or hold the Option/Alt+Space keys (Mac/Windows) while scrolling to change the size of the Loupe.
4. To alter magnification of the Loupe between 25% to 200%, select the option from the same cursor tool menu, or use the mouse scroll wheel to



- zoom in or out while the Loupe is in use.
- To reset the zoom to 100%, go to the Loupe menu option and select it from the list.

Viewing a magnified image

Capture One provides a number of options to display an image in the main Viewer at various magnifications. Viewing images at actual size (100% magnification) will display them at pixel level (full resolution) but it may result in the image not fitting fully within the Viewer, even when displayed on a large monitor. The Navigator tool is designed specifically to help with panning full-resolution images, and is especially useful with small displays, such as those on laptops. For more information on panning an image using the Navigator, see below.



- Select the Zoom-In cursor (magnifying glass icon) from the Zoom Cursor group in the Tool Bar, or press the Z key and click on the image in the Viewer to zoom through the following steps: 25%, 33%, 50%, 67% and 100%. (200%, 300% and 400% views are also available.) Select the Zoom-Out cursor to reduce the magnification respectively.
- Select the Pan (or hand icon) cursor from the Cursor tool bar, or press H, and double-click on the area to view at 100% magnification. To pan, click on the image and drag. Double clicking a second time will return the image to fit the Viewer. You can quickly switch to the Pan cursor from another cursor tool by holding the space bar down on the keyboard. Continue to hold the space down while you work with the Pan cursor, otherwise it will return to the previously selected cursor tool.
- Scrolling the mouse wheel will zoom the image in the following steps: 25%, 33%, 50%, 67% and 100%. (200%, 300% and 400% views are also available.) This action works regardless of the selected cursor tool.
- Click on the right-hand side head and shoulders icon of the zoom slider, located top right in the Viewer toolbar. Alternatively, drag the slider to 100%. Click on the right hand side icon to return the image to fit the Viewer.
- From the main menu, select View > Customize Viewer > 100%, or press Option/Alt+Cmd+0 (Mac/Windows). Select View > Customize Viewer > To fit, or press Cmd/Ctrl+0 (Mac/Windows).
- Pressing Cmd/Ctrl++ repeatedly will zoom the image in the following steps: 25%, 33%, 50%, 67% and 100%. (200%, 300% and 400% views are also available.) Press Cmd/Ctrl+- will reduce the magnification respectively.

Navigating a magnified image

Located in Details Tool Tab, the Navigator tool displays a thumbnail of the selected image along with a white rectangular frame that depicts the current zoom level in the main Viewer. You can use this frame as an aid to navigation when using high magnification in the Viewer.

Like the Focus tool, the Navigator can be un-docked from the Details Inspector and repositioned in the main Viewer, as and when required. To reposition, click close to the top of the tool and drag into place. To replace in the dock, drag back into the preferred position.

When using the Pan cursor (hand icon) tool, a more convenient option is to open a Navigator window directly over the image in the Viewer. Simply Ctrl/Right-click in image in the Viewer. A fully-functional Navigator tool is displayed.

1. Go to the Navigator tool, in the Details tool tab.
2. Magnify or zoom the image in the main Viewer using one the methods described in this section, or click on the Navigator tool's contextual menu (...), and select Zoom Viewer 100%. (Other magnification options are available.)
3. The main Viewer will be magnified and the corresponding area will be



- displayed in the Navigator, as indicated by the white frame.
4. To move around the image after zooming, click and drag the white frame inside the Navigator's thumbnail to inspect a chosen area. The main Viewer will be updated with the area of interest.

Viewing images with the Focus tool

In addition to the more general purpose nature of the Loupe, Capture One has a Focus tool with a separate viewer and dedicated cursor called the Pick Focus Point (sometimes known as the Focus Pick) specifically for checking focus accuracy. This cursor can also be accessed from the zoom cursor group. The Focus viewer is located directly beneath the Navigator tool in the Details Tool Tab by default. Note it can be detached from the toolbar (along with the Sharpening tool when needed) and left to float freely, or re-located anywhere in the toolbar.

The Focus viewer can also be used to assess the effects of sharpening when applying various settings. At 100 % magnification, the image in Focus viewer is rendered in final output quality, along with any sharpening applied.

1. Navigate to the Focus tool, located in the Details Tool Tab.
2. Click on the Pick Focus Point cursor tool (magnifying glass) icon beneath the Focus tool's viewer, or from the cursor tool bar, or press the F key. The previously selected cursor tool will be replaced by the Pick Focus Point cursor tool.
3. Click on the area of interest in the image displayed in the main Viewer. The Focus tool's viewer displays the image at 100% initially.
4. Drag the slider beneath the Focus viewer to alter the magnification, if necessary. Once altered the new value will be remembered and used thereafter.
5. To reset the tool's viewer to 100%, click on the head and shoulders icon to the right of the magnification slider or drag the slider to the center.
6. To fine-tune the position, click and drag the image in the Focus tool's viewer.
7. To move to another area in the image, right-click to display a secondary Navigator window in the Focus tool, and drag the white rectangular frame.
8. To display a larger Focus viewer in the dock, from the contextual menu (...) select Auto Size.
9. The Focus viewer can be pulled from the toolbar to float anywhere in the workspace. Resize the Focus viewer by dragging a corner in or out.



Checking focus in multiple areas simultaneously

When you want to simultaneously check multiple areas of an image, you can make Capture One display more than one Focus tool viewer and direct each to a different area of interest. Although the Focus tool is located in the Details Tool Tab, you are not restricted to adding duplicates of the tool to that Tool Tab. You can add them to any.

1. Ctrl-click/Right-click (Mac/Windows) anywhere in the tool bar or selected tool tab, and from the menu select Add Tool > Focus.
2. Repeat to add more Focus tools.
3. To re-position the Focus Tool in the tool bar, click-and-drag from the top of the Tool to the desired location. When re-docking, the tool above displays a light-graphic to indicate successful coupling.
4. Click-and-drag to pan the image in the Focus viewer to the next area of interest, or click-on the Pick Focus Point (magnifying glass cursor) and select the area directly from the main Viewer. Using the Select (V) cursor instead will direct each Focus tool's viewer to the same point.



Confirming focus and sharpness with the Focus Mask

The Focus Mask tool allows a quick visual confirmation of focus accuracy and, therefore, image sharpness. Areas that are sharply focused will be displayed by a mask. When there is no area of the image in focus, however, the mask will not be displayed. The mask's high-visibility is particularly convenient when working tethered, and especially so when photographing some distance way from the computer screen. It is also a useful tool for deciding which images you



need to work with prior to adjustment.

Note the Focus Mask is only compatible with RAW-based variants, and although the Focus Mask remains unaffected by sharpening, it is influenced to a degree by both image resolution and noise levels. To counter this, the Focus Mask has a threshold setting located under the application preferences. By taking a test shot with the camera and lens at the expected settings and then adjusting the Threshold slider to suit, you can make a visual assessment of the required threshold on-screen (and in real-time when working tethered).

1. From the main menu, select View > Focus Mask and ensure it is toggled on (or if the Focus Mask shortcut has been added to the main toolbar, click on cross-shaped AF target icon. When active, the icon is displayed in orange). The mask will be displayed only on RAW-based variants in the viewer and browser.
2. To remove the mask from images, from the main menu, select View > Focus Mask and ensure it is toggled off (or click on the Focus mask icon a second time).
3. The color, opacity and the threshold of the mask can be altered by selecting Capture One > Preferences... (Edit > Preferences... on Windows).
4. When only a small area of sharpness is displayed and a larger area (i.e., a less discerning response to sharpness) is required, drag the Threshold slider to the left.
5. When the assessment of sharpness is more critical, increase the Threshold by dragging the slider to the right.
6. Sharpness should always be confirmed using the Focus tool at 100%, or by removing the mask and checking on-screen at 100% magnification.

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Slideshow

FULL SCREEN / LOUPE / SLIDESHOW / CAPTURE PILOT

The Slideshow feature allows you to present photos or videos with transitions in a full screen view.

You can customize a slideshow by specifying transition type and duration.

- Create a slide show
- Edit slide show settings
- Use the slide show controls
- Rendering time

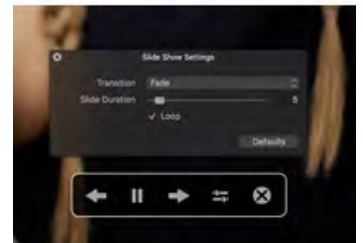
Create a slide show

1. Go to the [Browser](#) and select the initial image for the slide show. If no image is selected the slide show will start from the first image in the browser session.
2. Select View>Slide Show.
3. The slide show will automatically start.



Edit slide show settings

1. Move the (mouse) cursor when the slide show has started.
2. Click the settings icon. (See example circled in blue).
3. Choose one of 10 transition options from the drop down menu.
4. Alter the duration time using the slider from 1 to 60 seconds.
5. Settings changes are applied instantly.



Use the slide show controls

1. Move the mouse (cursor) when the slide show has started.
2. Click on the arrow icons to see the next or previous image.
3. Press **Pause** to stop the slideshow.
The Pause function will also stop a movie file if it is the viewed slide.
4. Press Esc or the exit (cross) icon to terminate the slide show.



Rendering time

The performance and rendering time of displayed images depends on the specification of your computer and the size of an image file. The duration time between images may be longer than the specified time as the next slide will not appear until it is fully rendered.

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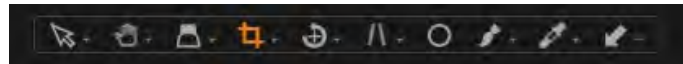
Toolbar

TOOLBAR / TOOL TABS / CUSTOMIZATION / PERSONAL TAB / WORKSPACES

The interface is divided into a number of elements, all providing a set of tools. The Toolbar provides graphical shortcuts to some of the most useful functions of Capture One.

- Cursor tools
- Tool Tabs
- Trash

Cursor tools



The Cursor tools are part of the Toolbar and provide easy access to a number of closely related sub-features. They are located at the top/middle of the user interface. (See the example right). The Cursor tools can also be activated by keyboard shortcuts. Read more on this in the [Shortcuts section](#).



Tool Tabs



Tool Tabs are sets of related tools that include some of Capture One's most common and frequently used features. They are located at the top/left corner of the user interface. (See the example right). [Find out more on each Tool Tab here.](#)

Each Tool Tab contains a number of tools. Each tool has its own set of controls to adjust a selected image file or multiple files. The Toolbar can be customized to display a set of controls to suit your needs. [See Customize the Toolbar.](#)

Select a predefined workspace by selecting Window>Workspace.



Trash



Press the Trash icon to delete images. The deleted image file will be placed in that session's trash folder. Files will not be permanently deleted unless you select File>Delete Permanently from the Capture One menu.

To delete the files directly in the OS trash, press Cmd+Delete.

To delete the files permanently, press Ctrl+Cmd+Delete.



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Tool Tabs

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Each Tool Tab contains a number of utilities that include a set of tools to adjust image files.

- Introduction
- Library
- Capture
- Lens correction
- Color
- Exposure
- Details
- Adjustments
- Metadata
- Output
- Batch process
- Local Adjustments
- Quick
- Composition
- Black and White
- Add a customized tool tab

Introduction

The Tool Tab bar is located at the top/left corner of the user interface. (See the example right). Each Tool Tab contains a number of tools. Each tool has its own set of controls to adjust a selected image file or multiple files. Note that some of the Tool Tabs share the same Layers tool in order to provide fast access to local adjustments by the means of layers and masks.



Library



The **Library Tool Tab** is a filtered file explorer that displays supported files. It allows access to images within Albums, Smart Albums and Favorites and to any image collections stored in folders on a computer or networked resource.

The Library Tool Tab is where all file navigation and organization takes place. Navigate via the hierarchical tree-view to a folder that contains the image files you wish to edit. Thumbnails of the images within your selected folder will be created and displayed in the [Image Browser](#). You can also watch videos supported by your particular OS. [Find out more here.](#)

The Library tool also enables access to images within Catalogs, Folders, Session Folders, Session Albums and Session Favorites. Within a session, the Library tool features an Output Folder, a Selects Folder, a Capture Folder, a Trash Folder and enables users to browse between recently used sessions.

The Library tool will feature fixed menus and albums and a Folders tool when



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a catalog is used.

Capture One applies non-destructive editing because any image adjustments will not affect the actual RAW file – only the Capture One settings file will change. Create a catalog or [session](#) to help organize your workflow.

Capture Pro



The [Capture Tool Tab](#) is the gateway to tethered shooting with a Phase One digital back or supported DSLR. This tool tab has a host of features to aid workflow. Adjust your [camera exposure settings](#) remotely, apply adjustments and multiple styles during capture. Use the Camera tool to alter ISO and White Balance settings and fire the shutter of a connected camera or activate its [Live View](#) functionality.

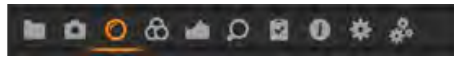
When capturing an image for a specific layout or design, the [Overlay tool](#) can be used to visualize the effect.

Use the [Capture Pilot tool](#) app to connect Capture One Pro to an iPad, iPod Touch and iPhone. The Capture Pilot app lets you present, rate and capture image files on an iOS device.

The Capture Pilot tool also has a [web function](#) that lets you view, [rate and color tag](#) captured images from a web browser on a computer, Android (mobile device) or Windows Phone operating system.



Lens correction

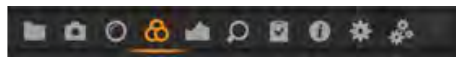


The [Lens Tool Tab](#) is designed to address a number of unwanted issues that are commonly associated with lens distortion. Capture One incorporates a number of preset profiles that are available for medium format and DSLR lenses that will greatly improve image results when used appropriately. Adjustments can also be applied manually to correct individual issues.

In addition, there are tools to control the layout of a photo. [Crop](#), [rotate](#), [flip](#) and apply [keystone corrections](#). [Aspect ratios](#) can be applied to images to meet output format needs.



Color



The [Color Tool Tab](#) has a number of tools to help control the colors of an image file. It enables users to set White Balance conventionally or by using the Skin Tone tool.

The [Color Editor](#) enables adjustments to be applied to groups of colors, specific colors or on skin tones. Save a color setting (once it is achieved) and apply it to later work, even as an ICC profile or style directly in a tethered session.

The Color Tool Tab also features a [Black & White tool](#) allowing users to adjust individual tonal channels and save them as a Preset for future use.

Note the [Layers](#) tool near the top which allows you to make localized adjustments with masks. This tool is also available in some other Tabs.



Exposure



The [Exposure Tool Tab](#) provides controls to adjust exposure aspects of images. Basic controls (e.g. Exposure Compensation) affect the whole image, and more advanced controls (e.g., [High Dynamic Range](#)) enables users to fine-tune adjustments.



[Levels](#) and [Curves](#) can adjust overall lightness values as well as the individual Red, Green and Blue color channels. The [Clarity](#) tool can help reduce haze or (a negative value) can create a softening effect that is particularly affective when applied to a portrait image to smooth out skin tones.

Note the [Layers](#) tool near the top which allows you to make localized adjustments with masks. This tool is also available in some other Tabs.

Details



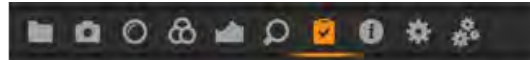
Image sharpness and noise reduction are controlled from the [Details Tool Tab](#). This Tool Tab includes [Advanced Noise Reduction](#), [Moiré](#) and [Dust/Spot](#) removal tools.



The Details Tool Tab includes a combined [navigation and focus tool](#) that allow users to quickly inspect close-up detail anywhere on the image at any zoom level. The Focus window can be used to keep track of the sharpness at a 100% view.

Note the [Layers](#) tool near the top which allows you to make localized adjustments with masks. This tool is also available in some other Tabs.

Adjustments



The [Adjustments Tool Tab](#) provides a clipboard with image adjustments that can be copied from one image and applied to another or multiple images. The default copy function contains only the parameters where actual adjustments are made to the settings of a source image.



It is possible to deselect specific adjustments as well as to save a set of adjustments as a [Style](#) for later use.

Metadata



The [Metadata Tool Tab](#) allows users to insert [keywords](#) and specific information in addition to the basic metadata from a camera. It is also possible to create your own Metadata Presets (a collection of values).



Metadata can be very useful when organizing photos or used to simply brand photos with some indications of the image type or photo creator. It is possible to set up metadata stamps (e.g. copyright, client profiles) and apply these to multiple photos.

Output^{Pro}



The **Output Tool Tab** features a number of parameters to help define how images are processed.

The Process Recipe tool includes parameters such as **file formats**, quality, color space, and resolution. The size of a processed file can also be configured. Users can also decide what specific metadata will be included in the processed image file and systematically rename output files as desired. Users can also add **watermarks** and save process recipes as well as process to multiple formats at the same time.



Batch process ^{Pro}



The Batch queue will automatically start when the **Process** button is pressed. Control the queue for processing and check which images have been processed previously in the Batch Tool Tab. Press backspace to delete images from the queue or drag-and-drop the listed image files into a preferred arrangement to change the process order. It is also possible to **reprocess files** from the history tab.



Local Adjustments ^{Pro}



The Local Adjustments Tool Tab is not enabled by default. In Capture One Pro 10 and earlier it was used to create layers and work on targeted areas of an image (e.g. specific areas that are overexposed).

The Layers tool are now shared between several Tool Tabs and this functionality has superseded the Local Adjustments Tool Tab.



Quick



The Quick Tool Tab is not enabled by default, but features a selection of key tools to help achieve a faster workflow.

Base characteristics provide different ICC camera profiles and film curves. An ICC profile is automatically applied according to the make and model of the selected RAW file.

The Quick tool enables users to Set White Balance conventionally or by using the Skin Tone tool. It is also possible to control Exposure and High Dynamic Range and process directly from this Tool Tab.

The Quick Tool Tab is not a default Tool Tab. To enable this Tool Tab...

1. Right click on the Tool Tab bar and select Add Tool Tab>Quick.
(Alternatively, go to View>Add Tool Tab>Quick).
2. The Quick icon will appear along side the other Tool Tabs. Cmd-click on the icon and drag it to an alternative position if desired.



Composition



The Composition Tool Tab is not enabled by default, but enables users to control the layout of a photo. [Crop](#), [rotate](#), [flip](#), apply [keystone corrections](#) and utilize the Overlay tool when capturing an image for a specific layout or design. Aspect ratios can be applied to images to meet output format needs.



The Composition Tool Tab is no longer a default Tool Tab. To enable this Tool Tab, please see [Add a customizable tool tab](#) below for more details. The Tool Tab is blank by default, and you will have to add tools manually. However, the original Composition Tool Tab (complete with tools, as displayed) can be accessed by reinstating the Capture One 9 workspace. From the main menu, go to [Window > Workspace > Capture One 9](#).

Black and White ^{Pro}



Capture One Pro features a dedicated Black and White Tool Tab that you can customize with a number of powerful tools to help perform monotone conversions. Note the Black and White Tool Tab is not a default Tool Tab. To enable this Tool Tab, please see the section [Add a customizable tool tab](#), below.



Find out more about the [Black & White tools](#).

Add a customized tool tab ^{Pro}



All of the Tool Tabs are customizable; you can add, move, duplicate and remove tools from any of the Tabs. In addition, there are three non-standard Tabs (Quick, B&W and Composition) you can enable, and you can add your own custom-named Tool Tab and add any combination of tools to them.



1. Right-click anywhere on a Tool Tab and select **Add New Tool Tab > Quick**, **B&W**, **Composition**, or **Custom Tool Tab** (as appropriate) from the drop down menu. (Alternatively, go to [View > Customize Tools > Add Tool Tab](#) and select the appropriate Tool Tab).
2. When the Custom Tool Tab option is selected, a dialog box will appear. Name the Tab, choose an icon and press **Add Tab**. The icon will appear in the Tool Tab bar.
3. Right click on the icon and select **Add Tool** from the drop-down menu and select a desired tool. Repeat this procedure to add more tools.
4. To rearrange the Tool Tab Bar, press **Cmd/Alt** (Mac/Windows) and drag icons in the Tab menu to the preferred position.
5. Right click on the Tool Tab Bar and select **Remove Tool Tab** to remove any unwanted Tool Tabs from view.

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Optimizing Your Workflow

This section provides background information about customization and workflow tips to aid in a Capture One workflow that meets your needs

Workflow Basics

Learn how to copy adjustments from one image to another, view before and after images and how to reset and undo image adjustments.

Preferences and Customization

Customize Capture One to support your specific workflow, needs and preferences. You can customize the toolbar and setup your own workspaces.

Keyboard Shortcuts

Get an overview of all the keyboard shortcuts and create your own with this easy to follow guide.

Change the Default Settings

Capture One automatically selects a recommended default setting for all image files from recognized cameras. It is also possible to apply a user defined default setting.

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Workflow Basics

WORKFLOW / COPY AND APPLY / CUSTOMIZATION / PREFERENCES / WORKSPACES

Learn how to copy adjustments from one image to another, view before and after images and how to reset and undo image adjustments.

RAW and Image File Formats

Find out how Capture One works with RAW files and previously processed formats including TIFF and JPEG.

Enhanced Image Package (EIP)^{Pro}

Learn about the benefits of exporting RAW files using Capture One's Enhanced Image Package feature.

Colors in Capture One

Discover how Capture One deals with image color, how to set a permanent color space, and calibrate an Eizo ColorEdge CG monitor.

Adjustment Controls

This section describes how the controls are used to make adjustments, how to copy those adjustments from one image to another and how to reset them.

Working with the Adjustments Clipboard

The Adjustments Clipboard is one of Capture One's most versatile and powerful tools, enabling you to not only select what adjustments are copied from the various tools but also which ones are to be applied to other images. It is used additionally to create User Presets and User Styles for the ultimate control over the look of your images.

Navigating and Selecting Images

To work with your images, you will need to review them by their Collections in the Library and then select them in the Browser. You can use a mouse, trackpad, or tablet directly, or navigate using the menu commands and shortcuts.

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RAW and Image File Formats

RAW / OUTPUT / BATCH / EIP / IIQ / JPEG

Find out how Capture One works with RAW files and previously processed formats including TIFF and JPEG.

- [Capture One and RAW](#)
- [JPEG and TIFF](#)
- [More about variants](#)

Capture One and RAW

Raw data is generated when light is received by the photodiodes on a sensor. Depending on the intensity of the light a stronger or weaker signal is generated. This data is read off and stored as unprocessed data on the memory card.

A RAW file contains more than one set of data. A DSLR file contains calibrated raw data plus the file header. A digital back file contains the actual raw data, calibration data for the digital back files and the file header information.

The file header is kept separate from the image data in digital back RAW files. The file header contains what is described as metadata; data about data. Metadata is information recorded by the camera at the time of capture and consists of the following:

- **Image Thumbnail (usually a TIFF, but sometimes a JPEG)**
- **Time/Date**
- **ISO**
- **Exposure information**
- **White Balance (that the image was shot at)**
- **Contrast curve**
- **Recorded pixel size**
- **Camera data (shutter speed/aperture/focal length etc)**

More than 100 pieces of data are stored together.

The White Balance determines how the file will look when Capture One creates the preview. The ISO, exposure data and camera model information are used to calculate the noise reduction used by Capture One.

Capture One de-mosaics the RAW-file information from the Bayer filter mounted onto the sensor to produce image files with three colors per pixel. This process uses an extremely sophisticated and patented algorithm.

The in-camera ISO and White Balance settings are applied to the image together with the formula developed for Capture One when the preview is created and displayed in the Viewer, in what is called a variant. Once the variant file has been produced, nearly all the variables can be changed such as Contrast Curves, Sharpening and Color Balance.

One of the really big advantages with RAW files is the ability to change the white balance after the image has been captured – this is often not possible with lossy formats like JPEG. The adjustments made to the image in Capture One are applied to the preview and added to a settings file. No changes are made to the raw data at any time.

Once the process button is pressed, raw data is processed using the settings



file. At this point the true pixel-based image is formed and output to specific dimensions.

JPEG and TIFF

Many DSLR and smaller digital cameras can create a JPEG at very high quality. These files can generally be further adjusted and improved in Capture One. Capture One supports viewing and editing of JPEG (RGB) and TIFF (RGB) files. Like RAW files, Capture One produces a preview and settings file, collectively called a variant, for each JPEG and TIFF file and works on those instead. However, it might not be possible to edit files in Capture One if you have JPEGs or TIFFs rendered in CMYK or Grayscale.



JPEG and TIFF are files that have already been processed to a certain level, either by a camera's internal software or in conversion software such as Capture One. When Capture One locates a file, the White Balance (WB) setting is determined by the camera that captured the image or by the conversion software that originally created the file. The White Balance setting can be adjusted, but only to a limited extent. Note, a JPEG and TIFF file usually has a significantly smaller dynamic range compared to RAW capture. This might result in burned out or darkened areas when the auto White Balance is applied or if the White Balance Picker tool is used to set White Balance.

More about variants

Variants are used by Capture One to display the original RAW, JPEG, TIFF, DNG, PNG, or PSD source files and to store the adjustments you have made. To understand the concept of variants you need to first see Capture One as a kind of non-destructive rendering engine. This non-destructive approach means edits are never saved to the original files. Capture One reads the original source files and then determines how they should look on-screen, based on some default factory parameters. A small preview file for each of your images is then made and this is what you see in the viewer.



When you adjust an image, the instructions are written to a small BLOB of data called settings. The application in real-time then re-reads the updated settings, and then updates the preview. We call this virtual representation a variant. In effect, what you are looking at on-screen is always a virtual representation of what the final file will look like once the image is finally processed or exported. This concept of a variant thus exists as a sort of in-between of the source file and the final file.

Each variant refers by name and format to the source images (wherever they're stored), so you can logically connect them to the previews on screen. There are many benefits to variants: they can be copied as many times as you like and can even exist in more than one place (in the form of albums). All of these virtual copies can exist as a representation of just one original source image. When it comes to exporting the final file, Capture One doesn't make any changes to your source images. Instead, it combines the original image data and adjustments you've made and makes a copy in the chosen format that a pixel editor can read.

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Enhanced Image Package (EIP)^{Pro}

[EIP / IIQ / RAW / PROCESS IMAGES / PROCESS RECIPE / OUTPUT NAMING](#)

Learn about the benefits of exporting RAW files using Capture One's Enhanced Image Package feature.

- [An overview of an EIP workflow](#)
- [Importing EIPs](#)
- [Packing images as EIP in Sessions](#)
- [Automatically convert all Phase One digital files to .EIP](#)
- [Unpacking EIP files in Sessions](#)
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- [Exporting images as EIP files](#)

An overview of an EIP workflow

Capture One's Enhanced Image Package (EIP) option offers a secure, reliable and non-destructive method of keeping the original RAW file together with any adjustments, metadata and relevant IIC and LCC profiles in one convenient container.

This makes the EIP format a highly desirable option when sharing files between colleagues and clients, or when you need to simply move files between your laptop and workstation when back in the office.

All RAW files from officially supported cameras can be packed as as EIP files, and you can even set up Capture One to pack RAW files as EIPs when working with a tethered camera.

Not only is the EIP file treated like any other RAW file when working in Capture One, but even after you have shared it with someone, it will be seen exactly as you created it and the RAW file is available for further adjustment and output to a final format like any other.

Importing EIPs

When collaborating with colleagues, packing RAW files as EIPs does away with the need to locate and include additional files. Even so, it's important to remember when using the Importer in a Session or Catalog to enable the Include Existing Adjustments option in the Adjustments panel, otherwise those adjustments will not be visible and you'll have to re-import the files. That's not the case when dragging and dropping a folder of EIP files into a Session. When you do that, Capture One automatically includes the existing adjustments when creating the previews. If the adjustments are not wanted, simply select New Variant (Image > New Variant) or use the shortcut F2/F7 (macOS/Windows).

1. Open a Session or Catalog, and select File > Import Images... or click on the Import Images icon in the main tool bar. The Importer dialog opens.
2. From **Import From** select the folder of EIP image files to import, and then choose the destination folder, naming and other options as appropriate.
3. In the Adjustments panel, enable **Include Existing Adjustments** with a check-mark.
4. Click on **Import All** to import EIPs (complete with adjustments).

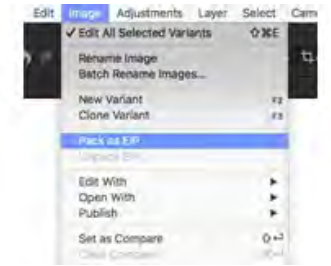


Packing images as EIP in Sessions

1. Select the intended images that will be packed as .EIP
2. From the main menu, choose Image > Pack as EIP.

3. The files are now automatically packed and will be named .EIP

Note: EIP is not recommended for use with catalogs.



Automatically convert all Phase One digital files to .EIP

1. Choose Capture One>Preferences.
2. Open the Image tab.
3. Check mark **Pack as EIP** when importing.
4. Check mark **Pack as EIP** when capturing.

The image file is now integrated in the Enhanced Image Package. The .EIP is simply replacing the image files. The setting files will be removed from the relevant folders and will also be included in the package.

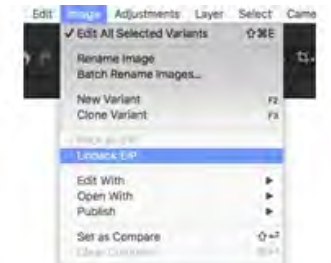
Note: An EIP is not recommended for use with catalogs. Always unpack an EIP before using it in a catalog.



Unpacking EIP files in Sessions

1. Select the images that need to be unpacked.
2. Choose Image > Unpack EIP.
3. The files are now automatically unpacked and will display the original file extension.

Note: An EIP is not recommended for use with Catalogs. Always unpack an EIP before using it in a Catalog.



Sharing EIP files

Catalog users can benefit from EIP export for simplified transportation of RAW and settings files and profiles, off system. In the Export originals panel, you will find an option to Export as EIP. Sessions users can also choose to Export originals as EIP files. In both cases this creates a workflow where the original RAW file and adjustments are copied and exported as a single EIP file.

Although EIP files can be imported into a Catalog, with or without any previous adjustments applied like a Session, EIP files cannot be unpacked in a Catalog. It is therefore recommended that EIP files are unpacked before using them in a Catalog or that they continue to be handled in a Session.

Exporting images as EIP files

1. Select the intended images that will be shared as .EIP.
2. From the main menu, choose File > Export Images > Originals.
3. Add any folder and file name information using the Location and Naming tools where necessary, and check mark **Pack As EIP** under the Options palette.
4. Click on Export Original. The files are now automatically packed and the extensions will be renamed .EIP.

Note: JPEG and TIFF files cannot be packed as EIP.



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Colors in Capture One

COLORS / PROCESS IMAGES / PROCESS RECIPE

Discover how Capture One deals with image color, how to set a permanent color space, and calibrate an Eizo ColorEdge CG monitor.

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Introduction

Essential information regarding colors in Capture One:

- Capture One deals with colors in two ways: internally and for output.
- Capture One works in a very large color space, similar to that captured by camera sensors. A large color space ensures that little clipping of the color data can occur. Clipping is the loss of image information in a region of an image. Clipping appears when one or more color values are larger than the histogram (color space of the output file).
- At the end of the workflow, the RAW data has to be processed to pixel based image files, in defined color spaces. These spaces are smaller than the internal color space used by Capture One. When processing, some color data will be discarded. This is why it is paramount to perform color corrections and optimizations to images before processing to a smaller color space.
- Capture One provides accurate color by reading the camera-generated RAW information, file header and settings file.
- A RAW file is assigned a color profile once Capture One has established which camera model has been used. The RAW data is then translated to the internal working color space of Capture One and it is here that edits can be applied.
- Image data is converted, by means of ICC profiles, to industry standard spaces such as Adobe RGB or sRGB during the processing stage.

Purpose and color spaces

Color Output Settings

Capture One Express for Sony can output to any RGB color space while Capture One Pro can also output CMYK. (It is necessary that the ICC profile is available on the local machine).

For Web

Images that are intended to be published on web sites should always be processed into the sRGB color space as few web-browsers are capable of color management and the subtleties of images will not only be lost but can also be incorrectly displayed. Images processed in larger color spaces like AdobeRGB will be displayed with less color (especially green), and are often slightly too dark when shown in browsers that only support sRGB.

For Print

Images for print should be output to suit the requirements of the client or lab. Adobe RGB is a large color space that is capable of expressing a wider gamut of colors than sRGB. Adobe RGB is, therefore, the preferred choice for images that are likely to receive extensive processing or retouching.

Camera Profiling

Embedding the ICC color profile into the processed file (ICC Profile > Embed Camera profile) ensures that no color changes

are made to the image data, which is particularly important for creating camera profiles.

Retouching/Manipulation

Image files that are intended to receive intensive retouching and manipulation can benefit by being processed and output in 16-bit to ProPhoto RGB, which is an even larger color space than Adobe RGB.

CMYK Color Spaces

Capture One Pro provides a selection of the most common CMYK color spaces. The photographer can convert to CMYK during processing to ensure image quality, instead of applying this color space conversion in postproduction. CMYK can be selected from the [Output Tool Tab](#).

Setting a permanent color space

Capture One Pro allows you to proof color space profiles, including CMYK for output, prior to processing from the menu (View > Proof Profile). Alternatively, as Capture One displays the image in the Viewer using the ICC profile that's selected in the highlighted Process Recipe, you can use a recipe to display the color space permanently. Note, a permanent color space profile seen in the Viewer may produce moderately different colors than the actual output image.

1. Select View > Proof Profile and select the desired profile from the list.
2. Perform final corrections before processing, using a recipe with the desired profile.
3. Alternatively, select the desired ICC profile in a Process Recipe for permanent display in the Viewer.



Monitor calibration

Adopting a hardware calibration device is the most reliable and objective method of calibrating a monitor. There are a number of inexpensive models to choose from and most are bundled with software offering advanced features that allow you to manually select target values and adjust the monitor for brightness, white point, gamma, and the black level. If you use an Eizo ColorEdge CG monitor, Capture One can even re-calibrate the display settings using the monitor's built-in calibration sensor.

Eizo monitor calibration

A number of Eizo ColorEdge CG monitors with a built-in calibration sensor can now be re-calibrated from within Capture One. Calibrating and profiling your monitor on a regular basis is essential if you want your monitor to display colors as accurately and consistently as possible. This feature leverages the hardware-calibrateable electronics of these monitors with the simple-to-use, built-in calibration sensor and Capture One's standardized target settings for predictable color reproduction.

The following Eizo monitor models are supported:

- 24-inch.
CG245W, CG246, CG247, CG247X, CG248 (UHD 4K)
- 27-inch.
CG275W, CG276, CG277
- 31-inch.
CG318 (DCI 4K).



Calibrate Eizo ColorEdge CG monitor

The following description assumes you have one of the supported monitors listed above connected to the computer using a suitable signal cable. A USB cable must also be attached for successful calibration. The cable should be connected to the monitor's default enabled upstream port, typically USB port 1. Please refer to the monitor's User's Manual for additional information. In a multiple monitor set-up, Capture One identifies all of the compatible monitors connected and re-calibrates them in-turn, regardless of where the application is displayed. If the calibration fails, first check the USB connection. If the connection is not faulty, try powering the monitor down, then powering back up. If calibration fails a second time, please exit all applications and restart the



computer.

1. From the main menu, go to Capture One > Preferences (Mac) or Edit > Preferences (Windows). The global Preferences dialog box opens.
2. Select the **Color** tab.
3. Under **Monitor**, click on the **Calibrate EIZO** button. A dialog opens asking whether you want to make a new default monitor ICC profile for it. The dialog box displays the target settings. Note these are standardized target settings and cannot be changed within Capture One.
4. Select **Yes** to continue with the calibration. The monitor's calibration sensor will appear from the bezel and the calibration will start.
5. When the calibration has ended a dialog opens and the sensor returns to the monitor's bezel. The display is adjusted and updated with the new profile. This profile is saved to the computer and the adjustment result is registered to the monitor's specified (e.g., CAL) display mode used for customized calibrations. The monitor's other display modes remain unaffected.
6. To return to an earlier calibration setting and profile, or to adopt another relevant to your workflow, it is recommended that you open the Eizo ColorNavigator software provided with the monitor and select it from there.

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Adjustment Controls

This section describes how the controls are used to make adjustments, how to copy those adjustments from one image to another and how to reset them.

- Using sliders
- Using the Undo/Redo commands
- Adjusting one image or multiple images
- Applying commands to groups of images
- Displaying Before and After adjustments
- Resetting all adjustments
- Temporarily resetting adjustments
- Resetting adjustments by individual tool
- Temporarily resetting adjustments by tool
- Mouse functionality

Using sliders

Most tools use sliders for changing values, and thereby for applying adjustments. Where sliders are employed, a value field is also displayed. This can also be used to alter adjustments.

Click and drag the slider to the left or right to set a value. Drag the slider to right to increase the value or the effect, drag the slider to the left to lower the value. Alternatively, you can place the mouse cursor over a slider and use the scroll wheel function to fine-tune the settings. As you can concentrate on the image itself, this is a good method to make adjustments without referring back to the tool.

Some sliders are centered. Dragging to the left usually applies a negative value. Note sliders have varied value ranges, depending on the parameter.

Click inside the value field and type the desired number.

Changing values in small increments

Click inside the value field and use the page up/down arrows on the keyboard to alter the number by a small increment, typically 1 or 0.1, depending on the parameter. For example, the increment is smaller when adjusting the Exposure tool. This allows very precise control.

Changing values in large increments

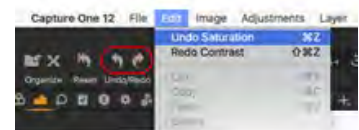
Click inside the value field, then click and hold the shift key and use the page up/down arrows on the keyboard to alter the number by a larger increment. This is typically 10, though it can be 1, depending on the parameter.

Using the Undo/Redo commands

If you make a mistake or apply an action or an adjustment you don't like, in most cases it can be undone. This option is not available from the individual tools themselves, however, but from the main menu or tool bar instead.

1. Select the image or images in the browser.
2. Choose Edit > Undo, or press Cmd+Z/Ctrl+Z (Mac/Windows), or press the

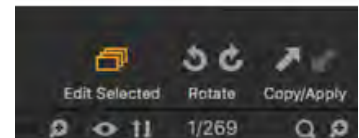




- Undo icon (left-facing curved arrow in the toolbar). Continue with the command to undo all previous adjustments or actions.
3. The Redo icon (right-facing curved arrow) will become active as soon as the Undo icon is pressed. Alternatively, choose Edit > Redo, or press Shift+Cmd+Z/Ctrl+Y (Mac/Windows).

Adjusting one image or multiple images

Press the Edit Selected variants icon (📁) or using the menu Image > Edit All Selected Variants to toggle between editing a single image (i.e. the Primary Variant - the thumbnail in the browser with the **thick white border**) and editing multiple images (i.e., Selected Variants - all **selected images** in the Browser). If this button is not enabled then edit actions are only performed on the Primary Variant. Learn how to [select and view multiple images](#). Note the type of adjustments that can be applied to all of the images simultaneously is limited.



It is important to ensure the Edit Selected variants feature is enabled when you want, for example, to copy adjustments from one image and apply them to other selected image files. See [Global Copy and Apply](#) and [Local Copy and Apply](#).

Applying commands to groups of images

Capture One enables you to simultaneously apply certain commands between selected images. This is ideal if you have captured a sequence of images and want some basic commands to be applied in one go, such as rotation (left/right), or resetting (or restoring to the default settings). Some basic adjustments can be applied this way as well such as Auto Adjustments and Styles.

Images that require more specific adjustments including Exposure, White Balance, and metadata such as Keywords must be copied between images (i.e., between the primary variant and other selected variants). For more information, see the section on the Adjustments Clipboard.

1. Enable Edit Selected Variants in the Toolbar, or from the main menu, select Image > Edit All Selected Variants.
2. In the browser, select all of the images you want to apply the basic adjustments to.
3. Apply the adjustment or adjustments as required. Note only basic adjustments can be applied such as Rotate (Left/Right), Auto Adjustment, and Styles and Presets.
4. All of the images will be updated in the Viewer.

Displaying Before and After adjustments

When you want to compare an image while adjusting a variant of that image, you must first create a copy and then select that to display alongside it in the Viewer. To make a copy, before making adjustments, you can use either the create New Variant or Clone Variant commands. Note copying variants does not duplicate your source image file.



If you have already made adjustments, and want to make incremental changes, use the Clone Variant command. This creates an exact copy including any adjustments you've made. When you've made adjustments and you don't have a copy of the original, use the create New Variant option instead. This creates a copy of the original (i.e., without any adjustments) from the adjusted variant. If you accidentally use the Clone Variant command, you'll need to perform a global reset to make comparisons with the original.

1. Select the image in the browser then choose Image > New Variant. Alternatively, press F2/F7 (Mac/Windows), or Ctrl-click/Right-click (Mac/Windows) and select New Variant.
2. To display both images in the Viewer, press Cmd-click/Ctrl-click (Mac/Windows) and select the image you copied in the browser. The new variant will become your primary variant (with the thicker border in the

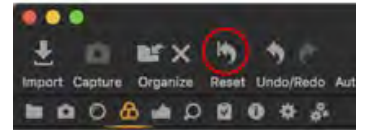
- browser) and will be displayed on the right-hand side of the viewer.
3. Select the image you want to make adjustments to in the viewer. Note to prevent certain adjustments being applied to both images, ensure the Edit All Selected Variants is disabled in the tool bar (or from Image > Edit All Selected Variants and deselect the checkmark).
 4. If you made adjustments before using the create New Variant command and want to move the image to the left-hand side, from the menu select Image > Promote Variant, or select Image > Set as Compare Variant.

Resetting all adjustments

When you want to remove all of the adjustments to a variant or multiple variants, perhaps to start-over, you can use Capture One's global reset option. Resetting returns the controls to their defaults and applies only to the selected variants. The variants revert back to Capture One's default settings.

When resetting accidentally, selecting the Undo command will restore applied adjustments. The Undo command is available from the menu and is also available from the tool bar, located immediately to the right of the Reset icon (on the default workspace).

1. Select the variant or variants in the browser that you to reset.
2. From the main menu, select Adjustments > Reset, or press Cmd/Ctrl+R (Mac/Windows). Alternatively, choose the (Global) Reset icon in the toolbar. Note when Edit Selected variants option is disabled and multiple variants are selected, choose shift and click-on the Reset icon instead.
3. When resetting multiple variants, a warning dialog will open asking you to confirm the action.

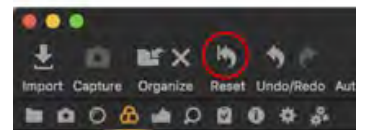


Temporarily resetting adjustments

When you want to compare a few quick adjustments you've made to an image with Capture One's default settings, instead of creating a copy (using the New Variant command), you can temporarily reset the adjustments. This temporary global reset feature works differently to the permanent reset, as it concentrates on more typical image adjustments and ignores the following geometric adjustments:

- Crop
- Rotation
- Flip
- Keystone
- Lens Profiles

1. Select the image in the browser and apply adjustments.
2. Press and hold the Option/Alt key (Mac/Windows) then press the Reset icon in the toolbar.
3. Any adjustments applied will be temporarily removed while clicking, allowing you to compare the effect.



Resetting adjustments by individual tool

Most tools have individual (i.e., local) reset buttons. Where a tool has a group of controls in a single panel, such as the Exposure tool, all of the applied adjustments will be removed. When tools have tabbed panels where controls can be adjusted on each, such as the Color Balance, Levels and Curve tools, Capture One allows resetting by tab.

1. Select the variant or variants in the browser and apply adjustments using the chosen tool.
2. Press the small reset icon in the tool's title bar to reset any adjustments made with it. Press Shift-click to reset the adjustments on all the selected variants (when the Edit Selected variants option is disabled).
3. To reset only the adjustments on the selected tab (where applicable), press and hold Cmd/Ctrl (Mac/Windows) while clicking on the local reset button.



Temporarily resetting adjustments by tool

When you want to compare before and after adjustments made to an image with a specific tool, the local reset button has a temporary option just like the global reset button in the toolbar. Where a tool has a group of controls over several panels, such as the Color Balance tool (displayed), Capture One allows temporary resetting by tab.



1. Select the variant or variants in the browser and apply adjustments using the chosen tool.
2. Press and hold the Option/Alt key, then press the tool's Reset icon. Any adjustments applied will be temporarily removed while clicking.

Mouse functionality

The Viewer: Place the mouse cursor over an image in the Viewer; moving the scroll wheel up will zoom in and out of an image accordingly.

The Browser: Place the mouse cursor anywhere in the Image Browser. Use the mouse scroll wheel to scroll up and down in the image collection.

Sliders: Place the mouse cursor over a slider in any given tool and use the scroll wheel to fine-tune the slider settings.

Curve Points: The mouse scroll wheel control can help fine-tune a Curve. Pick Curve points and use the mouse scroll wheel to precisely adjust them as desired.

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Working with the Adjustments Clipboard

The Adjustments Clipboard is one of Capture One's most versatile and powerful tools, enabling you to not only select what adjustments are copied from the various tools but also which ones are to be applied to other images. It is used additionally to create User Presets and User Styles for the ultimate control over the look of your images.

- Overview
- Local copy and apply
- Quick local copy and apply
- Global copy and apply
- Global copy and apply using the clipboard
- Autoselect adjustments

Overview

The Adjustments Clipboard is one of the most misunderstood tools in Capture One and yet it's also one of the most powerful.

Located in the Metadata inspector, the Adjustments Clipboard is where the settings for all the adjustment tools applied to an image as a group are stored when the Copy and Apply Adjustments commands are used. As it encompasses all the adjustments made in Capture One, this is the clipboard that's used when any of the various Copy and Apply commands are chosen.

The commands can be selected from the tool itself, the shortcuts in the main toolbar (slanted arrow icons), or from the Adjustments main menu.

You can use the Adjustments Clipboard in different ways, depending on your workflow, and whether you want to apply the adjustments to just one image or multiple images.

When you want to apply adjustments to one or more images quickly, whether that's just a couple of settings or a group, is to ensure that the Edit Selected Variants option is already enabled. Then it's simply a case of making adjustments to one image, pressing Copy, selecting another or a number of images and pressing Apply.

However, if you're not sure which images are to have the adjustments copied to, or you've forgotten to enable the Edit Selected Variants option before selecting Copy then it's easy to make the selections, enable the Edit Selected Variants option and then press Apply.

The Adjustments Clipboard oversees each of the individual tools' local copy and apply clipboards. Adjustments copied to these are also copied to the main clipboard. They can be used independently of each other or together.

For example, if you want to copy an orientation change between images which, as a default setting isn't usually permitted, then this can be overridden by manually enabling it in the Adjustments Clipboard before selecting the Apply command.

Local copy and apply

Copy and apply adjustments made with a tool to one or more images.

1. Press the [Edit Selected](#) variants icon.
2. Select the image that you want to copy the adjustment from in the browser.



- (The thumbnail will have a thick white border).
- Now select the image thumbnails that you want to apply the adjustment to. (The thumbnail(s) will have a thin white border in the browser.)
 - Press the small double-ended arrow icon on the tool. A dialog box will appear.
 - Press Apply at the bottom of the dialog box. The adjustment will be applied to the selected images.



Quick local copy and apply

Instantly copy adjustments made with a tool to one or more images.

- Press the **Edit Selected** variants icon to enable multiple editing. The icon will turn orange when enabled. (See circled in the toolbar.)
- Select the image that you want to copy the adjustment from. (The thumbnail will have a thick white border in the browser.)
- Now select the image thumbnails that you want to apply the adjustment to. (The thumbnail(s) will have a thin white border in the browser.)
- Hold down the shift on your keyboard and press the small double-ended arrow icon on the tool. (See example circled at the top of the Levels tool).
- The adjustment will be instantly applied to the selected images.



Global copy and apply

Perform a Global Copy and Apply of adjustments made in all tools to other images.

- Press the left arrow (located in the top right of the user interface) to copy all the adjustments made to an image.
- Alternatively, go to the **Cursor Tools** and select the Copy Adjustments arrow.
- Select all the images that you want to apply the settings to in the **Browser**.
- Apply the adjustments by pressing the right-arrow (Paste) in the top toolbar or in the Cursor Tools.
- All changes made to an image can also be saved as a Style. For more information, see the section on how [To create a Style](#).



Global copy and apply using the clipboard

You can copy all the adjustments made with several tools to the Clipboard and apply them one or more images.

- Select the image that you want to copy the different adjustments from. (The thumbnail will have a **thick white border** in the browser).
- Select the image thumbnails that you want to apply the adjustment to in the **Browser**. Press the **Edit Selected** variants icon.
- Select the **Adjustments Tool Tab**. Notice that the copied adjustments will have a check mark next to them in the **Adjustments Clipboard** tool. Deselect any adjustments with a check mark if you do not want them applied to the selected images.
- Click **Copy** at the bottom of the Adjustments Clipboard tool.
- Click **Apply** at the bottom of the Adjustments Clipboard tool. All the selected adjustments will be applied to the selected images.



Autoselect adjustments

You can choose whether Capture One should automatically select all the adjustments that you have made on the image when you click on **Copy**. This feature is on by default.

The Autoselect feature is controlled by clicking on the action icon and select **Autoselect > Adjusted** or **Autoselect > Adjusted except Composition**. The latter option ensures that adjustments like Crop, Rotation and Keystone settings are **not** copied from one image to others as these will typically need to be set on an image per image basis. You can also turn the Autoselect feature off by selecting **None**.

Note that the default is set to **Adjusted except Composition** in Capture One 12 unless you have upgraded from Capture One 11. Then it will be set to **Adjusted** (and thus include the Composition tools).



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Navigating and Selecting Images

To work with your images, you will need to review them by their Collections in the Library and then select them in the Browser. You can use a mouse, trackpad, or tablet directly, or navigate using the menu commands and shortcuts.

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- [Comparing images](#)
- [Selecting multiple images](#)
- [Selecting only the primary variant](#)
- [Selecting images by variant position](#)
- [Selecting the primary variant from multiple images](#)
- [Editing only the primary variant](#)
- [Deselecting the primary variant](#)
- [Navigating image selections by sets](#)
- [Selecting images by file name](#)
- [Creating an Album from a selection](#)
- [Navigating by User Collection](#)

What are Primary and Selected Variants?

Primary Variant: This is the active image in the viewer and the one that you want to make the initial adjustments to. When viewed in the browser, the primary variant always has a thicker border to differentiate it from other selected variants. The primary variant is used to make adjustments to before copying and applying those adjustments to the selected variants.

Selected Variant(s): When adjustments have already been made to the primary variant, select another image or group of images that you would like to apply those adjustments to. Note, however, some group commands such as rotate, reset and automatic corrections can be applied to be the primary and selected variants at the same time. A thin white border is present on all selected variants in the Browser. Press the Edit Selected variants icon (🔍) to enable adjustments to these files.

Learn how to [select and view multiple images](#). Also see [Global Copy and Apply](#) and [Local Copy and Apply](#).



Comparing images

When you want to compare an image against other images or variants of the same image (i.e., a Variant Group), Capture One's Compare Variant option keeps the selected image on-screen while you select the others using the Left, Right, Up or Down arrow keys. You can also use the Select Next/Previous (i.e., forward/backward) feature available as an option in the tool-bar. The Compare Variant feature is especially useful when rating and color tagging a series of similar images and especially so when making final selections.

As well as being available in Full Screen mode, the Compare Variant option can be combined with visual aids such as the Loupe and Focus Mask, as well as the zoom shortcut Shift-scroll and image navigation with the Pan (H) cursor.

1. Select the image in the Browser, then choose Image > Set as Compare Variant. Alternatively, press Shift-Return/Enter (Mac/Windows), or Ctrl-click/Right-click (Mac/Windows) to open the contextual and select Set as Compare Variant. The selected image is highlighted with an orange frame



- and the succeeding image is automatically displayed with it for comparison.
- Navigate through the other images in the Browser one at a time using the Left, Right, Up or Down, Arrow keys (Mac) or Ctrl+ Left, Right, Up or Down, Arrow keys (Windows), or use the Select Next/Previous (i.e., forward/backward) feature available as an option in the toolbar.
- To view and compare multiple images, click-and-hold the Shift key while navigating using the Left, Right, Up or Down, Arrow keys (Mac) or Ctrl+ Left, Right, Up or Down, Arrow keys (Windows), or to view and compare selections as a Set, select Cmd-click/Ctrl+click on the intended images in the Browser.
- To navigate by Set, choose Select > Select Next Set (Alt-Right Arrow, Mac only), or Select > Previous Set (Alt-Left Arrow, Mac only).
- To clear the Compare image, choose Image > Clear Compare Variant (Cmd-Return/Shift+Enter, Mac/Windows).

Selecting multiple images

Viewing multiple images from a collection or a variant group can be useful when you want to assess several images side-by-side for various reasons (e.g., color, focus accuracy, exposure density, etc.), or when you want to apply the same settings, rating or adjustments to images simultaneously. A maximum of 12 images are displayed in the viewer at any one time. (When more than 12 are selected, only 11 will be displayed.) For more information on variant groups, see the section [here](#).

- Choose from one of the following:
 - From the main menu, choose Select > Select All (or press Cmd+A/Ctrl+A (Mac/Windows)).
 - Click on the first variant in the series that you want to select, then press shift and click on the last image variant in the series.
 - Click on the relevant variant in the series that you want to select and press Cmd/Ctrl (Mac/Windows). Repeat to add images.
- A selection of image variants can be deselected at anytime from the main menu, select Select > Deselect All (or press Shift+Cmd+A/Ctrl+Shift+A (Mac/Windows)).



Selecting only the primary variant

When working with a variant group or any selection of images, you can easily isolate the primary variant from the rest. For example, you can use this option when you want to return to a particular image to edit in a selection. The following instructions are assuming multiple images are selected already.

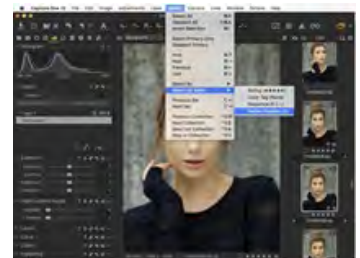
- From the main menu, choose Select > Select Primary Variant Only, or shift-click on the primary variant in the browser (note there is no shortcut assigned by default, but it can be added, see [Working with shortcuts](#) for more information).
- The Primary Variant is displayed by itself in the Viewer.



Selecting images by variant position

You can select variants by their position in the variant group. You can use this to isolate images from batches of cloned variant groups for a specific task. When you have created multiple variant groups with identical adjustments applied to each of the variants in the group, you can use this option when, for example, you want to export all the variants at position three from within a collection. For more information on variant groups, see the section on Copying Images.

- Open all the variant groups that you want included in the selection.
- Select the relevant variant from an open group or stack.
- Go to the menu and choose Select > Select By Same > Variant Position.
- All those variants occupying the same position in the collection will be selected and displayed in the viewer. (Variants in closed groups will not be selected or displayed.)



Selecting the primary variant from multiple images

When you want to assess images in a selection or variant group, Capture One allows you to navigate the selection by one image at a time. This image is called the primary variant. Being able to select one image at a time is useful when you want to work on it without adjusting any of the others selected while observing and comparing the effect. The following instructions assume multiple image variants are selected already.

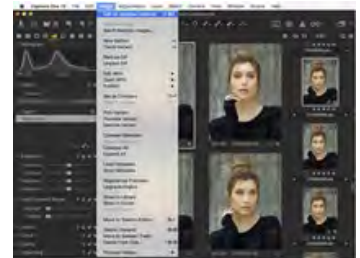
1. To navigate the selection/group, choose from one of the following options:
 - o From the main menu, choose **Select > First/Previous/Next/Last** (or press **cmd/Ctrl+** relevant direction arrow (Mac/Windows)).
 - o Using a mouse or pen, click directly on the required image.
2. When you want to edit the Primary Variant, verify that the **Edit All Selected Variants** option is deselected in the menu or Toolbar. See Edit primary variant below for more details.



Editing only the primary variant

You can edit the primary variant from a selection of multiple images while observing the adjustments against the others in the viewer. Note the size of the images displayed is dependent upon the screen size and the number of selected images (up to 11 images can be shown in the viewer at any one time). The following instructions assume multiple image variants are already selected.

1. Navigate to the image in the selection/group.
2. From the main menu, **deselect Image > Edit All Selected Variants**, or click on the multiple thumbnail icon in the Toolbar if active (orange), returning the icon to gray. Failure to deselect the Edit All Selected Variants option or icon will, naturally, result in all of the selected images being adjusted simultaneously.
3. The Primary Variant is ready to be edited.



Deselecting the primary variant

Capture One offers an easy option to remove the primary variant from other selected variants of that image. This is useful when you want to exclude that image from any further adjustments. For example, when the primary variant is ready for export or is to be used as a reference image. The following instructions assume multiple image variants are already selected.

1. From the main menu, select **Select > Deselect Primary Variant**.
2. The Primary Variant is removed from the selection.
3. To return the Primary Variant back to that selection/group, from the main menu, select **Edit > Undo/Undo Change Selection** (**cmd+Z/Ctrl+Z** (Mac/Windows)).



Navigating image selections by sets

Capture One allows you to navigate selected image variants by sets (e.g., a pair, or three or four images). For example, when you have two or more images selected for comparison in the viewer, you can move to the next set by the same number without having to manually select each image every time. Besides being a time saver, this is a convenient way to assess and navigate a large collection of images in the browser. It can also be used when applying ratings, keywords, presets or styles to images.

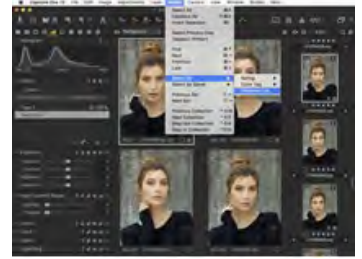
1. Select a number of images in the browser (e.g., a pair, or four images).
2. Apply adjustments, ratings, or keywords as necessary.
3. From the main menu, choose **Select > Next Set** (or press **option+right arrow/alt+right arrow** (Mac/Windows)).
4. To navigate back, choose **Select > Previous Set** (or press **option+left arrow/alt+left arrow** (Mac/Windows)).



Selecting images by file name

Occasionally it can be difficult to find an image, even when using keywords or other metadata. However, when you know the file name then Capture One can be used to search for a specific image. Capture One can also search for multiple images using a list of file names. If a client is monitoring a session, or a request is made to locate an image after making a submission from a Catalog, this option greatly simplifies the search. List separators can be chosen for the most common options.

1. When searching a catalog, from the Library, under Catalog Collections, select **All Images**. (When searching a session, from Session Albums, select **All Images**.)
2. From the main menu, choose Select > Select By > Filename List. A dialog box will open.
3. Type in (or copy and paste) the relevant file names that you're searching for in the text box.
4. When searching a list, select the appropriate method to distinguish between file names from the **Delimiter** fly-out menu.
5. Select **Ignore file extension** when you are searching for variants in multiple file formats (i.e., both RAW and JPEG).

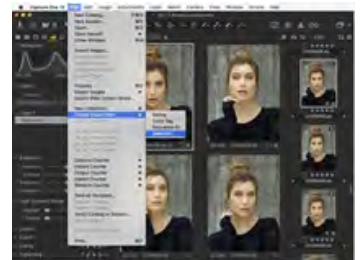


Creating an Album from a selection

Any selection of image variants or variant group can be made into an album. When making an album from a variant group, only one of the variants from that group requires selection.

1. Select the image variants in the Browser.
2. Go to the menu and choose File > Create Albums From > Selection... A new collection dialog opens.
3. Name the collection or album.
4. Check-mark **Select collection after creation**, when you want Capture One to automatically display the contents afterwards, either to confirm the successful creation and addition of images, or to work in that album. (When deselected, the album contents will not be automatically displayed, however, it can be manually selected to display the contents at any time.)
5. Check-mark **Add selected images after creation**, when you want Capture One to add the images. (When deselected, the album will be created but images have to be added manually afterwards. This option is intended to be used when setting up new albums from scratch, typically before images are selected.)
6. Click on **OK** to create the new Album.

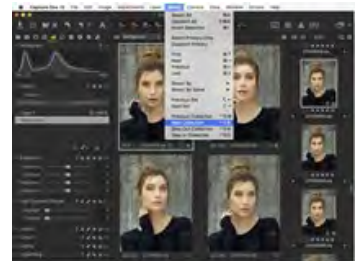
NB: You can also right-click on an image, and select Create Albums From > Selection...



Navigating by User Collection

You can, of course, already navigate and select Catalog/Session Collections and User Collections (i.e., groups, projects, albums and smart albums) simply by clicking on them with a mouse or pen, or, by touch when you're using a suitably equipped screen. However, you can also navigate collections using the menu and by shortcuts, if you prefer. The following description assumes that User Collections have been previously created.

1. From the Library, choose Select > Next Collection (or press Ctrl+Shift+S (Mac/Windows)). Repeat to move down collections, including sub-folders (e.g., albums and smart-albums) if expanded.
2. To navigate upwards through collections, from the menu choose Select > Previous Collection (or press Ctrl+Shift+W (Mac/Windows)).
3. To reveal or expand the Collection (when there's a sub-folder hierarchy of albums, for example), from the menu choose Select > Step in/Expand (or press Ctrl+Shift+D (Mac/Windows)). The next sub-folder in the hierarchy will be revealed. Repeat to expand successive sub-folders, if not already expanded.
4. To select the next folder in the selected collection's hierarchy, choose Select > Next Collection (or press Ctrl+Shift+S (Mac/Windows)). When



- selecting this option and the collection has not been expanded already, the next collection in the Library will be selected instead (as in step 1).
5. To close or collapse a collection, from the menu, choose Select > Step out/Collapse (or press Ctrl+Shift+A (Mac/Windows)).

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Preferences and Customization

Customize Capture One to support your specific workflow, needs and preferences. You can customize the toolbar and setup your own workspaces.

Global Application Preferences

Capture One Preferences enables customization of the application to help aid workflow.

Customize the Toolbar ^{Pro}

Add or remove tools to create a customized toolbar.

Customized Workspaces ^{Pro}

Capture One provides several different fully-customizable workspace layouts for working with your images.

Controlling Capture One Pro with a Tangent grading panel

Capture One's interface and the majority of the tool set can be controlled using a grading panel from Tangent.

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Global Application Preferences

PREFERENCES / CUSTOMIZATION

Capture One Preferences enables customization of the application to help aid workflow.

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Verifying and modifying the preferences

Capture One has a range of preferences that allow you to alter how a particular feature responds. In some cases, certain features can only be accessed from the preferences window, so it makes sense to spend some time becoming familiar with each tabbed page and specifying the preferences to suit your particular workflow. The settings affect all Catalogs and Sessions within Capture One.

1. Go to Capture One > Preferences (Mac) or Edit > Preferences (Windows). The global Preferences window opens.
2. The settings are arranged by page using labeled tabs. Click on a tab to view and specify the settings to suit your particular need.
3. To enable the new settings, quit Capture One and restart. Restarting is not necessary when adopting certain features, such as Calibrating an Eizo Monitor, or changing the Color Wheels Layout.
4. Each page can be returned to their default settings independently of the others. Click on the **Defaults** button on the relevant page, then quit Capture One and restart.



General

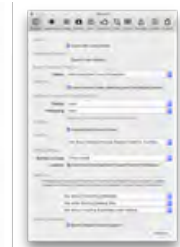
Select General settings relating to the **Viewer, Catalog and Session, Recent Captures Collection, Importing, Hardware Acceleration (Use OpenCL), Activities, Favorites, Catalog Backup, Media Pro, and Tangent Integration.**

Viewer

Enable or disable the mouse scroll wheel to zoom into images displayed in the Viewer.

Catalog and Session

Open a new Catalog or Session in a new window in addition to the current open window. Deselect this check box to replace the current window with the new Catalog or Session.



Recent Captures Collection

Choose the duration after when a Recent Captures folder will be created in the Library. This is useful to isolate groups of images when shooting tethered throughout the day. Select the duration from the fly-out menu.

Importing

When detecting a memory card in a card reader, choose between whether the importer dialog opens automatically, or ignores it.

Hardware Acceleration (Use OpenCL for)

Choose **Auto** from both the **Display** and **Processing** drop down menus to improve performance. The **Auto** setting will automatically determine whether your graphics card will produce a faster performance than the CPU (Central Processing Unit) in your computer. Select **Never** if you are experiencing stability problems. Note, OpenCL stands for Open Computing Language.

Activities

Enable or disable the activities icon, when Capture One is busy.

Favorites

Choose the appropriate action for adding Session Folders to Favorites from the fly-out menu.

Catalog Backup

From the **Remind on close** fly-out menu, select the frequency for backing up Capture One catalogs based on the volume of work. Backup Catalogs do **not** contain any source (i.e., original) image files, whether referenced or stored internally.

The **Location** field displays the path to the current backup location. Click on the arrow icon to verify the setting. The default location for backing up catalogs is in the User's Application Support folder in the Library (Mac), however, where possible, back up to an external disk is recommended.

Media Pro

When importing Media Pro catalogs, metadata and Catalog Set information from Media Pro can be used by Capture One to update image variants and Albums, respectively. Select the intended action for each, as desired.

Tangent Integration

Capture One's interface and the majority of the tool set can be controlled by grading panels from Tangent. Each Tangent panel model is supported by Capture One Pro with a group of default control layouts. Enable support by checking the box.

To reset only the displayed settings, click the Defaults button at the bottom of the tab.

Appearance

Viewer

The background pattern and the color of the viewer can be adjusted to different shades of gray, white and black. The Capture One default is a dark neutral background. The size of margins and proof margins can also be adjusted here.

Layers

The Layer Mask Color can be altered. Click on the icon and select the color from the dialog.

Image

Modify the functionality or handling of different types of files.

Cache



The image preview size (px) value can be adjusted to set the size of the proxy file. The higher the Preview Image Size, the higher quality of the Quickproof output recipe and preview image that Capture One generates. Preview sizes of 3840 px and 5120 px have been added to improve the interactive performance of the preview image when applying adjustments on UHD/4K and 5K screens. The 3840 px setting is also recommended for DCI 4K (4096 x 2160 px) displays. A large cache setting will, however, increase the amount of time it takes to load previews and thumbnails in the application.



EIP Packing (Sessions only)

Check mark one of the options if an .EIP workflow is preferred. EIP packing can be made automatically on import or capture (Phase One digital backs only).

Editing

Many users shoot both RAW and JPEG simultaneously. To avoid working on JPEGs and TIFFs accidentally, remove the editing option to ensure these files are viewable but not editable. The effect of selection is immediate, Capture One does not need to be relaunched. When editing is disabled, JPEG, TIFF and PNG files can still be imported with their corresponding variants rendered and displayed in the browser and viewer. Note, however, when the variants are selected the editing tools are grayed out.

Make new files writable by everyone: When selected, new files (created during import, capture or EIP conversion) will have write permissions for everyone, not just the file owner.

Default Processing Engine: Select the default processing engine for Capture One from the fly-out menu. The processing version selected will only be used by new files (created during import, capture or EIP conversion), existing files rendered with later versions will remain unaffected. You can check the processing version used to render selected variants in the Base Characteristics tool, located under the Color Tool Tab.

Metadata

When working in different, third-party applications, metadata will be stored in different ways. Choose your preferred option. If left to the default settings, the metadata entered in Capture One will be preferred to third-party metadata.

Capture^{Pro}

Phase One and Leaf Credo Configuration

From the **Extension** fly-out menu, choose between IIQ or TIF, when tethered and saving files to the computer. The IIQ extension is the default setting, however the TIF extension is compatible with older applications. It is important to emphasize that the TIF extension is a RAW file like IIQ, not the TIF format known from Photoshop®, for example.



Leaf Aptus and Aptus II Configuration

When using a Leaf digital back, select the support applicable for your camera by model. If the list is not showing, select Leaf Credo under Providers/Enabled Tethered Support (Mac/Windows), below.

Live Preview

Adjust the pause setting for Live Preview from 30 seconds to 20 minutes.

Providers/Enabled Tethered Support (Mac/Windows)

Select the appropriate support for your camera by brand. Capture One will automatically detect a supported model once connected. To prevent possible conflict between Capture One's drivers, deselect the other brand options.

Phase One industrial users adopting the Phase One SDK to capture should de-select support for Phase One cameras.

Color

Transform

Select an option from the **Rendering Intent** drop down menu. (Rendering Intent refers to the conversion of one color to another.)

Perceptual (default): Compresses the total gamut from one device's color space into the gamut of another device's color space when one or more colors in the original image is out of the range of the destination color space. This preserves the visual relationship between colors by shrinking the entire color space and shifting all colors – including those that were in gamut.

Relative Colorimetric: When a color in the current color space is out of gamut in the target color space, it is mapped to the closest possible color within the gamut of the target color space, while colors that are in gamut are not affected. Only the colors that fall outside of the destination gamut are changed. This Rendering Intent can cause two colors, which appear different in the source color space, to be the same in the target color space. This is called "clipping". Relative colorimetric is the default method of color conversion built into Photoshop.

Absolute Colorimetric: Colors match exactly with no adjustment made for white point or black point that would alter the image's brightness. Absolute Colorimetric is valuable for rendering "signature colors", those colors that are highly identified with a commercial product such as the yellow used by the Eastman Kodak Company™, or the red used by the Coca-Cola Company™.

Saturation: Reproduces the original image color saturation (vividness) when converting into the target device's color space. In this approach, the relative saturation of colors is maintained from gamut to gamut. This rendering intent is primarily designed for business graphics, where the exact relationship between colors (such as in a photographic image) is not as important as are bright saturated colors.

Monitor

A number of Eizo ColorEdge CG monitors with a built-in calibration sensor can be re-calibrated from within Capture One.

The following Eizo monitor models are supported:

24-inch

CG245W, CG246, CG247, CG247X, CG248 (UHD 4K)

27-inch

CG275W, CG276, CG277

31-inch

CG318 (DCI 4K)

Color Wheels Layout

Capture One's color wheels used in the Color Balance and Color Editor tools located in the Color Inspector can be displayed with the chroma hue reference phase rotated 90-degrees to imitate a Vectorscope layout. Select the layout as appropriate. Capture One does not require restarting.

Exposure

Exposure Warning

Set the values of the Exposure Warning function by clicking and dragging the shadow and highlight sliders, as desired. When enabled, areas that fall outside the set values will be shown by a color overlay. By default, the highlight



warning value is 250 and the shadow warning is not enabled.

Double click on the highlight and shadow color icons to change the overlay color. The default highlight color is red and the shadow is blue.

Levels Tool

The **Channel Mode** allows you to switch between the relevant shadow and highlight pickers for the default combined RGB channel mode and separate red, green and blue channels.

Preset output **Target Levels** for both modes can also be applied by clicking and dragging the appropriate sliders.

The **Auto Levels Clipping Thresholds** sets a 0.10% threshold for Shadows and Highlights by default. This allows a small number of pixels, for example specular highlights, to clip without reducing the overall contrast and dynamic range of an image. Type in the values to alter the settings. The range is adjustable between 0-10%, although in practical terms it's unlikely that anything approaching 1% and above would be necessary. Note, the Auto Levels Clipping Thresholds deliver the specified percentage of clipped pixels precisely.

Click the Defaults button to reset the settings.



Crop

Modify the behavior of Crop tool.

Mask

Choose when to **Show Mask**, and adjust the **Opacity** and **Brightness** levels of the area outside the crop. There are also a range of **Frame** and **Label** options.

Grids and Guides

There are number of options to alter the grid and guides tools. You can also change the color of a crop mask and guide line.

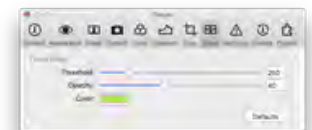


Focus^{Pro}

Focus Mask

The Focus Mask tool is used to evaluate whether an image was sharp at the time of capture, and does not depend on the image settings. However, you can alter the threshold or level at which the Focus Mask will be triggered. To assess sharpness more critically, the threshold should be increased above the default 250 setting (i.e., the slider dragged to the right). The amount will vary by use case, however the threshold slider can be adjusted while observing the effect in the Viewer. The color (default is a lime green) and the opacity of the mask are also adjustable.

Warning! While this is a useful tool to evaluate the sharpness of a capture initially, to assess critical sharpness you should check images in the Viewer or Focus tool at 100% magnification.



Warnings

Choose if and when you want to be notified and when certain actions happen. Check mark the boxes in the Files and Folders, Adjustments and Output

sections to warn when, for example, you are about to permanently delete images.

It is not recommended to disable the **Warn when deleting images from disk** dialog. Images cannot be recovered.



Update

Updates

This page displays registered and unregistered Capture One applications. The frequency of how often Capture One should check for updates is also selectable here. When an update is available it should be downloaded and installed on-top of the current installed application.



Product Registrations

Capture One can register all Phase One products as well as other supported camera models, either automatically or by prompt. Registering products will help support the development of future products and software features.

Plugin Settings ^{Pro}

In order to change the settings for each plugin, select the install plugin from the list on the left and change the desired settings on the right.

Note that the company offering the plugin has made specific settings that is tied to their plugin, so please visit their site for instructions on how to use them. You can disable an installed plugin by selected it and clicking on the **Disable** button if you want to turn its functionality off temporarily. Just click on **Enable** to turn it back on again.



Capture One 12 is shipping with one plugin from Phase One called **Open With Menu**. It allows you to exclude certain apps from the **Image > Edit With** menu list to keep things nicely organized.

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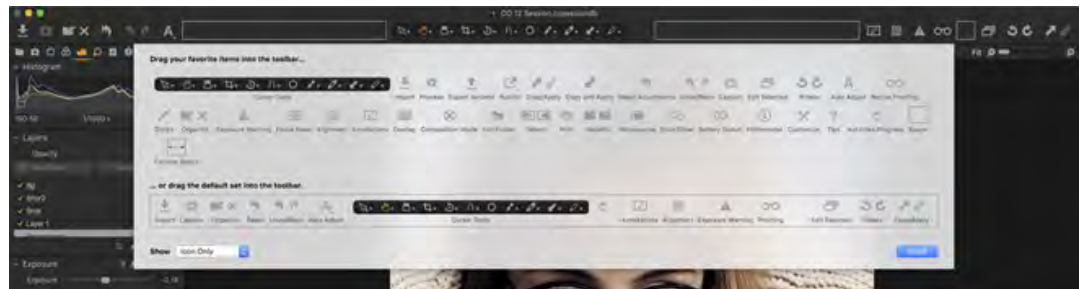
Customize the Toolbar Pro

PERSONAL TAB / TOOL TABS / TOOLBAR / WORKSPACES

Add or remove tools to create a customized toolbar.

- Arrange the toolbar
- To customize the toolbar

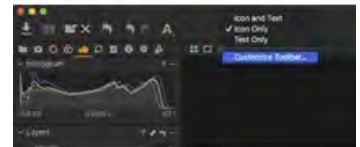
Arrange the toolbar



To customize the toolbar

Capture One offers a wide range of customization options. You can add icons to the top toolbar or reorder the tab-menu.

1. Go to View>Customize Toolbar... Alternatively, right click (or press Ctrl and click) on the toolbar and select **Customize Toolbar...** The Customize Toolbar window will open.
2. The Customize Toolbar feature is a placeholder for icons. Drag the icons from the placeholder to a position in the toolbar or remove icons from the Toolbar by dragging them to the placeholder.



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Customized Workspaces^{Pro}

WORKSPACES / SESSIONS / PERSONAL TAB / WORKFLOW TIPS

Capture One provides several different fully-customizable workspace layouts for working with your images.

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- Customize the interface
- Create a dual monitor user interface
- Save a personal workspace
- Add a tool tab
- Remove a tool tab
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- Modifying the window size of tools

Workspace layout overview

Experiment with various workspaces by selecting Window>Workspace and select an option that best fits your workflow. In addition, you can change the layout of the current workspace by selecting the options in View menu (e.g. View > Customize Tools > Place Right). You can add an unlimited number of tools to a Tool Tab. The tools will automatically collapse to make more space if an area of the interface becomes too crowded. It is recommended that you avoid overcrowding and keep tools open to help aid a smooth and efficient workflow.

Customize the interface

Capture One offers numerous customization possibilities. You can reposition the user interface to have the [Browser](#) or the tools on the right hand side.

1. Experiment with the default workspaces by choosing Window>Workspace and select an option that best fits your workflow.
2. Go to Capture One>Preferences for further customization choices. See [Preferences](#).



Create a dual monitor user interface

There are numerous ways to create a customized layout. Follow this suggested set-up to create a dual monitor user interface. This example has a Viewer on one monitor and the Browser on the other.

1. Select Window>Viewer to create an extra Viewer. (Move the Viewer to a second monitor if necessary).
2. Select View> Viewer to toggle it off. The Viewer within the main user interface will disappear and the browser thumbnails will replace it.
3. Move your cursor to the side of the Viewer to access the default Tool Tabs. (More Tool Tabs can be added. Add another Tool Tab in the Viewer by right-clicking on the Tool Tab bar and select Add Tool Tab>Lens or Quick etc).
4. Individual tools can also be moved to float freely. Simply click on the bar at the top of any tool, then drag and drop it to a desired position. (In the example shown, the Camera tool was moved on top of the Viewer on the second monitor).



Save a personal workspace

Although there are numerous ways to customize your workspace, the View menu is a good place to start. Here you will find a wide variety of options to help create a bespoke user interface. For example, some users prefer to have the Browser on the left-side, the tools on the right-side (i.e., select View > Customize Tools > Place Right), or the Viewer on full screen (i.e., select View > Enter Full Screen).

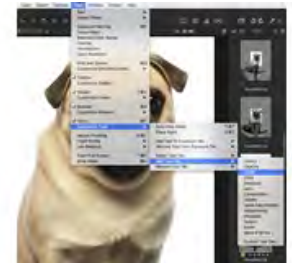


1. Once you have created your desired workspace, choose Window > Workspace > Save Workspace.
2. Name the workspace in the Save Workspace window text field.
3. Alternatively, select an name from the drop-down menu to overwrite an existing workspace, and select Yes or No to cancel from the Save Workspace window.
4. The workspace is now available from Window > Workspace.

Add a tool tab

Add a non default Tool Tab or one that has been removed. Non default Tool Tabs include the [Black and White](#) and [Quick](#) Tool Tab.

1. Go to View > Customize Tools > Add Tool Tab > Quick.
2. The Quick icon will appear alongside the other Tool Tabs.



Remove a tool tab

1. Go to View > Customize Tools > Remove Tool Tab and select the tool tab that is not needed.
2. Alternatively, right click on the [Tool Tabs](#) bar. Go to **Remove Tool Tab** and select the tool tab that is not needed.



Add a custom tool tab



1. Right click on the tool tab and select Add Tool Tab > Custom Tool Tab from the drop down menu. (Alternatively, go to View > Customize Tools > Add Tool Tab > Custom Tool Tab...).
2. A dialog box will appear. Name the Tab, choose an icon and press Add Tab. The icon will appear in the Tool Tab bar.
3. Right click on the icon and select Add Tool from the drop down menu and select a desired tool. Repeat this procedure to add more tools.
4. To rearrange the Tool Tab bar, press Cmd/Alt (Mac/Windows) and drag icons in the tab menu to the preferred position.
5. To remove any unwanted tool tabs from view, right click on the Tool Tab bar and select Remove Tool Tab.

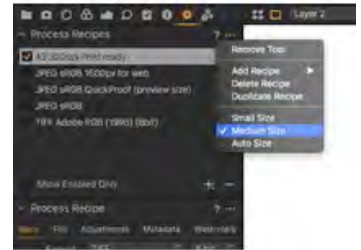


Modifying the window size of tools

The window size of a number of tool's can be adjusted for convenience. Along with two fixed-size options, an Auto size option varies the size of the window depending on the size and number of the other tools' windows in the same

inspector, and whether they're opened or closed. In addition, certain tools can be resized when removed from the tool inspector to float in the viewer.

1. In the tool's title bar, click on the action menu (...) icon. The Action Menu opens.
2. If the tool chosen has the option, select from the following choices:
 - o **Small Size** (fixed)
 - o **Medium Size** (fixed)
 - o **Auto Size** (automatically determined by the size of the other tools' windows in the inspector)
3. The window size is automatically saved.



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Controlling Capture One Pro with a Tangent grading panel

Capture One's interface and the majority of the tool set can be controlled using a grading panel from Tangent.

- [Working with a Tangent grading panel](#)
- [Video: An overview of the Tangent Element grading panel](#)
- [Enabling Tangent support](#)
- [Customizing the layout with Tangent Mapper](#)
- [Color wheel layout](#)
- [Changing the color wheel layout](#)

Working with a Tangent grading panel

Color grading control panels have traditionally been the preserve of colorists using high-end video-editing and grading software, however the panels from Tangent are the first to be adapted to a stills application - Capture One Pro.

Each Tangent panel model is supported by Capture One Pro with a default control layout, called a map. In its simplest implementation, the three trackerballs in the Tangent Ripple, Element Tk, and Wave panels can be used to adjust the tint and saturation (with the outer ring controlling the lightness) of the three color wheels in the Color Balance tool, but they're not limited to that.

Using the Tangent Mapper application (downloaded from the Tangent website) each of the models, particularly the more sophisticated panels with their additional knobs and buttons can be customized or mapped to control your favorite tools.

With the fully-featured and modular Tangent Element system, for example, consisting of the individual Tk, Kb, Mf and Bt panels, you can control just about every tool in Capture One and perform even the most complex tasks.

To edit and create custom maps, the Tangent Mapper application is required. The Tangent Mapper reveals over 460 properties that can be mapped in practically any configuration. Tangent grading panels can be purchased from Tangent resellers and some Phase One partners.

Video: An overview of the Tangent Element grading panel

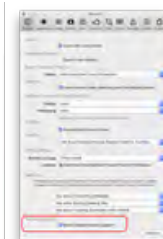
Get an overview of the workflow using a Tangent grading panel with Capture One Pro in this in-depth video tutorial. (Click on the image to the right). A Tangent grading panel provides photographers with a highly responsive and precise surface to control Capture One and make adjustments.



Enabling Tangent support

Capture One has built-in support for Tangent panels, which includes a default control layout or map for their devices whichever you have. Each map controls the Capture One tools directly and is completely independent of Capture One shortcuts. If customization of the layout is required, Tangent offer the optional Tangent Mapper application, which is available to download from the Tangent website.

1. Connect your Tangent panel, using a powered USB hub if necessary.
2. Open Capture One, and go to Capture One > Preferences (Mac) or Edit >



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- Preferences (Windows). The global Preferences dialog opens.
- Select the **General** tab and under **Tangent Integration**, verify that the **Enable Tangent device support** is checked. If not, select it.
- Quit and restart Capture One Pro to ensure the support is enabled.
- Your Tangent panel should now be ready for use.

Customizing the layout with Tangent Mapper

Before you can customize the control layout of your Tangent panel, the Tangent Mapper software is required. (Please see the Tangent Mapper - User Manual for more information.) Tangent Mapper is a component of the Tangent Hub application. This can be downloaded and installed from the Tangent Wave website.

- Go to www.tangentwave.co.uk
- Select your Tangent panel model.
- Go to **Application Support**.
- From the **What application do use?** drop-down menu, select **Phase One Capture One Pro** application from the list.
- Download the appropriate OS installer from the list and install the **Tangent Hub** application.



Color wheel layout

Capture One's color wheels used in the Color Balance and Color Editor tools located in the Color Inspector can be displayed with the chroma (color) hue reference phase rotated 90-degrees to imitate a Vectorscope layout, as found on high-end video-editing software.

A Vectorscope is used to adjust the color balance to give images a certain look, called grading by colorists, in much the same way as it is in Capture One. In addition to the color hue rotation, both the saturation and lightness sliders are reversed in the Color Balance tool and the Color Editor (Skin Tone mode only).

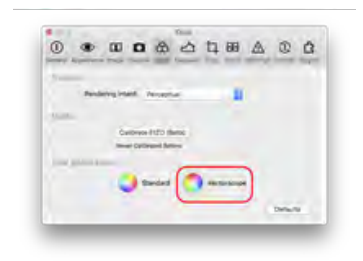
Familiarity with this layout, with red near to the top, should be of benefit to anyone working with both mediums, especially so for example when trying to color balance between stills and video from a range of scenes. A convergent workflow is particularly relevant with the three color wheels in the Color Balance tool, especially when working with the Tangent Wave grading-panels.

Note the change in layout does not affect the functionality of either tool. Also note the layout cannot be altered in features where the system color picker is adopted (which can display a color wheel on a Mac), such the option found in the Appearance inspector in the Preferences.



Changing the color wheel layout

- Go to the Capture One (Mac) menu > Preferences. The Preferences dialog box opens.
- Click on the Color tool tab.
- Go to Color Wheels section and select the layout from the two options. Red to the right is the default. Red close to the top imitates a Vectorscope. The selection is made without the need to restart Capture One.
- To return to the default selection, repeat from step 1.



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Keyboard Shortcuts

SHORTCUTS / PREFERENCES / CUSTOMIZATION

Get an overview of all the keyboard shortcuts and create your own with this easy to follow guide.

- [Overview of shortcut sets](#)
- [Selecting keyboard shortcut sets](#)
- [Displaying a summary of the selected set](#)
- [Create a custom shortcut set](#)
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Overview of shortcut sets

Capture One has numerous default keyboard shortcuts arranged in sets to help speed up your workflow. You can choose between the set for the the current version, one from a legacy version (v 3.7) and, if you're using a Logic Keyboard (macOS only), you can select a localized set for the US, UK and German markets. In addition, you can also create one or more custom sets, to assign your own favourite shortcuts.

Shortcuts are assigned not just to the main menu but to many other tools and features, including options for the workspace (such as selection of the tool tabs, cursor tools and displaying or relocating the browser), certain adjustments (including rotating images, rating and color tagging) and many others.

Selecting keyboard shortcut sets

When opening Capture One for the first time the default shortcut set is used. However, Capture One offers the option to create and select custom sets of shortcuts, as well as shortcuts from an earlier version (Capture One 3.7), if desired. Shortcut sets are also provided for the optionally available Logic Keyboards (macOS only), which are localized for the keyboard layouts typically used in the US, UK and Germany.

1. To select the version, from the main menu, select Edit > Edit Keyboard Shortcuts. The Edit Keyboard Shortcuts dialog window opens.
2. Select the required set from the fly-out menu. Choose from the following:
 - o **Logic Keyboard (US)** - Localized for US keyboard layout.
 - o **Logic Keyboard (UK)** - Localized for British keyboard layout.
 - o **Default** - Latest set. Choose this to return to the default settings for the current version.
 - o **Capture One 3.7** - Popular legacy set.
 - o **Logic Keyboard (DE)** - Localized for German keyboard layout.



Displaying a summary of the selected set

Capture One can display a summary of the selected set using your default browser. Note a network connection is not required.

1. From the main menu, select Edit > Edit Keyboard Shortcuts. Click on Summarize... and get the currently selected keyboard shortcut setup.



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Change the Default Settings

Capture One automatically selects a recommended default setting for all image files from recognized cameras. It is also possible to apply a user defined default setting.

- [Change the default setting](#)

Change the default setting

Individual adjustments can be made to most Color, Exposure, Details and Metadata tool parameters and used as the default setting. Once selected, this user-defined default setting will be automatically applied to every subsequent file from a specific camera make and model. This procedure is recommended for advanced users only. There is a vast range of possible user-defined default settings.



1. For example, if your camera habitually under- or over-exposes captured image files, adjust the Exposure slider to an appropriate value.
2. Click on the action menu icon and select the **Save as Defaults for... (relevant camera model)** option at the top of the tool tab.
3. Add any other Color, Exposure, Details and Metadata adjustments using the same procedure, if necessary.
4. This new Default setting will now be applied to every subsequent file from this specific camera make and model.

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Organizing Images

This section contains all the information you need to structure your images in a catalog or session. Add keywords and other meta data to help with cataloging, Rate your best images or Search and filter for material by almost any property.

Catalog or Session?

Should you be working in a Catalog or a Session, or both? This section looks at the benefits of Capture One's dual image management systems.

Working with Catalogs

Catalogs are best used as semi-permanent projects or for organizing large volumes of images.

Working with Sessions ^{Pro}

Sessions are favored for daily on-set workflow with direct interface to the computer's file system. Find out how to create a Session and start importing images.

Library

The Library Tool enables you to access files located on your local computer or on external drives and networks. The Library Tool is a filtered file explorer that displays Catalogs, Sessions, albums, projects, groups, folders and supported files.

File Naming

Capture One offers extensive file naming and renaming options, including the use of dedicated tokens for dynamically created file names and folder generation based on the libraries within Catalogs and Sessions and certain image metadata. You can also create customized filename options and presets depending on your particular needs.

Creating Copies of an Image

Each time you copy an image you create another variant. Capture One keeps all of the variants of an image together in groups, so that you can always view and work on them together at anytime.

Sequences (Phase One XF system camera only)

This section covers the new Sequences feature for the Phase One XF system camera and how you can use it to automatically name files and create sub folders, search and group images together from a number of related photos.

Managing Keywords and Metadata

The Metadata inspector allows you to insert and manage keywords, as well as view and manage basic metadata.

Deleting Images

Find out how to delete source images and variants in Sessions as well as referenced and managed variants in Catalogs.



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Catalog or Session?

Should you be working in a Catalog or a Session, or both? This section looks at the benefits of Capture One's dual image management systems.

- [Opening Capture One for the first time](#)

Opening Capture One for the first time

You must first choose between a Catalog or a Session to begin importing and working in Capture One.

A Catalog is more suited to creating or maintaining an existing image library and is ideal for large, on-going projects. Although you can create numerous Catalogs, a Session is a more convenient when working with smaller, individual projects; for example, you can simply create a separate Session folder for each download from a memory card, which you can name by date or project as per your existing naming strategy.

However, you are not tied using one type of image management system over the other. You can create as many as you like (depending on disk space) and can switch between the different types at anytime.

1. After opening and activating Capture One, you will be presented with a simple dialog with two workflow choices:
 - o **I am New to Capture One** - select this if you are unfamiliar with Capture One and want to open a Catalog.
 - o **I know Capture One** - select this if you're familiar with either Catalogs or Sessions. You will be presented with a second dialog with the option to create a new Catalog (or a new Session if you prefer, see [here](#) for more details).
2. A new document (i.e., Catalog/Session) is created and named (this can be renamed at a later date, if necessary). After creating a new document, you can import files from your card reader, connected camera, or folder. See the [Importing](#) section for more information.



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Working with Catalogs

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Catalogs are best used as semi-permanent projects or for organizing large volumes of images.

Overview of Catalogs

Before importing any photos, you must first decide to use either a Catalog or a Session. This section provides information on Catalogs and the benefits of using one.

Importing Images into a Catalog

Find out how to import images from your card reader, connected camera, flash disk or portable external drive, as well as how to import and view images already stored on your computer, external drive or network.

Importing Catalogs and Sessions

In addition to importing entire Capture One Catalogs and Sessions and their associated images, you can also import Media Pro Catalogs, as well as Lightroom catalogs and Aperture Libraries.

Organizing Images in a Catalog

After you have imported images into your Catalog the next step is to organize them. You can use system-based Folders, or organize your images using virtual folders; Projects, Groups and Albums.

Working with Multiple Catalogs

In Capture One you are not restricted to working in any one Catalog or Session at a time.

Working with Networks

Whether you're an individual with one or two computers or you're part of an organization or group, Capture One is network compatible and capable of handling access from multiple computers.

Backing-up a Catalog

This section provides information about backing-up a Catalog. It also describes how to restore a Catalog, should anything go wrong, and how to verify a Catalog to keep it in good shape.

Updating Earlier Catalogs

Catalogs produced by earlier versions must be updated, if they're to take advantage of the latest version of Capture One.

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Overview of Catalogs

Before importing any photos, you must first decide to use either a Catalog or a Session. This section provides information on Catalogs and the benefits of using one.

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- [Video tutorial: Catalogs](#)
- [Catalog strategies](#)
- [Creating a new Catalog](#)
- [Opening a Catalog](#)
- [Importing images into a Catalog](#)

An overview of a Catalog

A Catalog is the primary method of working in Capture One, and it's where all of the various steps in your workflow will be carried out. Not only does that include image importing, capture (using a tethered camera) and image organization (viewing, sorting and grouping), but a Catalog is where you will apply all your image adjustments and then distribute your images.

The location of the original images (sometimes called source files) can be on any disk (local, or external) and their location is referenced by the Catalog and recorded by the Library. As an option, the original image files can be stored physically inside the Catalog file. This is referred to as a managed workflow. The benefit to you when working with managed files is that those images are always accessible. Capture One never alters your originals in anyway but if you store your images on a external disk, and you don't have access to it when the time comes to distribute them, then Capture One can't duplicate them to process or export them.

Whether you're using a managed or referenced workflow, or a combination of the two in the same Catalog, image files and are located and accessed using that Catalog's Library tool. The Library tool in the Catalog tracks the imported original images in their folders or wherever they're located, and it seamlessly keeps track of the corresponding variants and adjustments, so you don't have to. For more information on variants, please see [here](#). After importing, you can use the Library to to create projects, groups and albums, to further organize your images.

Note that you are not limited by the number of Catalogs you can create, so you use as many or as few as you like. See below for information on Catalog strategies.

Video tutorial: Catalogs

Learn about Catalogs in this in-depth video tutorial. (Click on the image to the right). Discover how to create, build and structure Catalogs.



[Catalog strategies](#)

It is possible that a single main or master catalog will be sufficient for your workflow needs. However, grouping files into a few separate catalogs creates a higher level of organization. The main downside is that you can't search across them. Here are some examples in which to organize your catalogs:

- **Organize by project**

You can dedicate a catalog to each of your projects or clients for easy and quick reference. This is also a good method for supporting short-term deadlines and goals.

- **Organize by chronology**

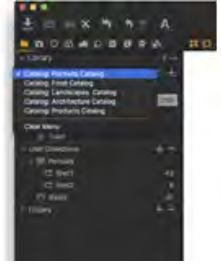
You can create an additional set of catalogs based on the date and time. This is a good monthly habit that will help you build a searchable archive as you go.

- **Organize by subject**

Any logical subjects that are not likely to overlap are a good way to divide your media into multiple catalogs. For example, you can store your images by high-level subjects that describe the types of your photo assignments, such as travel, fashion, portraits and so on.

- **Organize by process/task**

At times, there are clearly definable states for files in a workflow. Separating items by their state or task can help direct users to a media item at a specific stage in the workflow. For example, photographers might create one catalog each for client selections or edited images.



Creating a new Catalog

After setting up and creating your first Catalog, the next time you open Capture One that Catalog will be displayed straightaway. However, if in the meantime you've created and recently opened a second Catalog or a Session, a Recents window will be displayed first. You can bypass any previously created Catalogs (or Sessions) and create a new Catalog, by clicking on the New Catalog... button instead.

If you have clicked on one those Catalogs in the list or Capture One is already open, you can create a new Catalog (or Session) without closing the existing one. You are not restricted by number of Catalogs that can be created, see Catalog Strategies above for more information.

1. If Capture One is open already, as either a Catalog or Session, select File > New Catalog... Or use the keyboard shortcut Shift+Cmd+N/Ctrl+Shift+N (Mac/Windows). A dialog box will open.
2. Fill in the Name field and select a Location for the Catalog. Note, although a Catalog can be stored anywhere in theory, it is best located on a high-speed local drive.



Opening a Catalog

If you've not created another Catalog or Session, opening Capture One will open your original Catalog, however if you have, a Recents window will be displayed showing up to ten of the last-opened Catalogs or Sessions in a list. You can open any of those directly, or you can search for a Catalog anywhere on your system by clicking on the Browse button instead.

When Capture One is already open, you can do one of the following

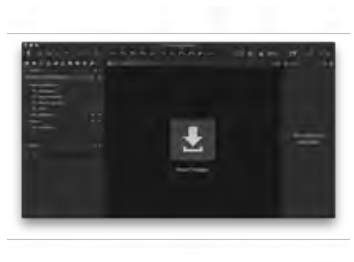
- Select File > Open Recent and select the relevant Catalog from the list. Note, the list may also shows recent Sessions, if any.
- Using the Finder/Explorer (Mac/Windows), navigate to the relevant Catalog on your system, including external drives and then select and Ctrl/right-click (Mac/Windows) to open.



Importing images into a Catalog

Depending on your workflow, there are various options available to import images into a Catalog in Capture One:

1. Import from a memory card, connected camera, or folder on a computer or external disk drive. Press the import icon (downwards-pointing arrow icon in middle or the top left of the user interface) or go to File > Import Images... Find out about the Import dialog box [here](#).
2. Shoot from a supported tethered DSLR or digital back. Images will be imported into the active Catalog by default, or you can choose another location. Find out about capturing from a tethered camera [here](#).
3. Import a Media Pro, Capture One or Lightroom Catalog, or a Aperture Library. Note that there are certain limitations to what Capture One is able to import from third-party applications. Find out more information [here](#).



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Importing Images into a Catalog

Find out how to import images from your card reader, connected camera, flash disk or portable external drive, as well as how to import and view images already stored on your computer, external drive or network.

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- [Selecting images from external media](#)
- [Excluding duplicates](#)
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An overview of importing images

After choosing the option to create a Catalog, you will need to acquire - or import - images before you can start to view them and work with them. When Capture One imports images it automatically creates a small variant file (a preview with a group of settings applied) for each image. At the same time it also creates a link or reference to where it's stored.

You can import images files from various sources, such as a card reader or connected camera, or perhaps you've stored some images on a portable disk drive that you want moved. With new images like that you can get Capture One to copy those files when importing to a destination folder of your choice. From the **Import To** dialog of the Importer, select **Choose Folder...** from the **Destination** fly-out menu. Typically, that's the Pictures/My Pictures (Mac/Windows) folder on your computer if you have space, or a folder on an external hard disk drive.

When you have an existing folder of images on your computer or external disk drive that you haven't used with Capture One, you still need to "import" these images to generate the variants and create a link to them. From the **Import To** dialog of the Importer, select **Current Location** from the **Destination** fly-out menu. Capture One can "import" the contents of individual folders or your whole image library including sub-folders. Images aren't copied or moved and importing will preserve the file structure, which is useful if you have a large library that you would like to maintain.

Capture One can also import images from any folder and store those images physically inside the Catalog. As images are always copied, this "managed" workflow is useful in that the original images are always available to the application for processing or exporting. However, as the Catalog should typically reside on your local drive, this option can quickly put pressure on system resources. From the **Import To** dialog of the Importer, select **Inside Catalog** from the **Destination** fly-out menu.

File formats you can import into a Catalog

Capture One supports a range of still-image formats and is compatible with QuickTime Player/Windows Media Player (Mac/Windows) for playback of supported movie formats and codecs. The following file types can be imported:

- RAW (from a range of supported digital cameras)
- DNG (from a range of supported digital cameras)
- JPEG
- TIFF
- PNG

- PSD (read only)
- QuickTime/Windows Media Player (Mac/Windows) compatible movies and codecs (dependent on OS)

For a list of supported cameras, visit the [Phase One](#) site.

Selecting images from external media

Capture One's importer dialog allows you to import all the images from a memory card, connected camera, flash disk or portable external drive, or you can import selected images instead.

Note that you can also import images from a connected camera if it supports the Mass storage protocol. Not all cameras support this feature, but some Nikon models do as an example.



You can choose to store source images on your computer or, preferably, store them on a dedicated external drive. In either case, Capture One will copy the images to the chosen destination folder and reference them. If you want to move the source files at a later date, move the folder from the Library. The Library will update the references to the images in their new location.

1. Open the importer by choosing one of the following options:
 - o From the main menu choose File > Import Images...
 - o Click on the Import icon in the Toolbar.
 - o Drag a volume or folder of images into the Capture One image browser.
 - o Click on the Import icon in the browser of a new Catalog.
 - o Connect your card reader to your computer.
2. The Import Images dialog (i.e., the importer) opens. When a card reader has been connected or when a folder has been dragged into the Capture One image browser, the contents of that folder are displayed as thumbnails in the importer's browser.
3. If the importer's browser isn't displaying your images, go to the **Import From** tool, click on the **Source** fly-out menu, select **Choose Folder...** and navigate to the relevant folder you want to import. The images will then be shown in the browser and every image selected automatically for import. Also, make sure that the **Include Subfolders** check box is selected in the Import From tool. This option is useful for locating all the images on a memory card.
4. Enable **Exclude Duplicates** to prevent duplication of images already imported by your current Catalog.
5. When you want to select specific images to import, adopt the usual shift-click to select contiguous images, or Cmd+click (Mac), Ctrl+click (Windows) to select individual images. When you want to reset the image selection, click on the background between thumbnails.
6. When using a multi-bay card reader with two or more cards inserted, each card appears at the top of the **Source** fly-out menu. After downloading from the first card, select the next from the fly-out menu.
7. In the **Import To** tool, make sure the **Destination** fly-out menu is set to **Choose Folder...** Note the importer remembers the last selection and, therefore, the current setting may not be suitable for your intended storage location.
8. Navigate to either, an existing system folder, or create and name a new folder as desired on the local computer or an external disk, and click **Set as Import Folder**. Recently used folders appear as shortcuts.
9. In the optional Sub Folder field, add a folder or a series of sub-folders. Select this only if you want to segregate a group of images from an existing folder of images on import, or adopt a multiple folder structure. (See below for more information.)
10. From the **Sample Path** field, verify the path is pointing to the **chosen folder for import**.
11. Verify the **Collection** text box is set to **Recent Imports Only**. If already set-up, you can use the other settings to sort images into existing User

Collections (i.e., existing albums, or albums based on templates). (For more information, see below.)

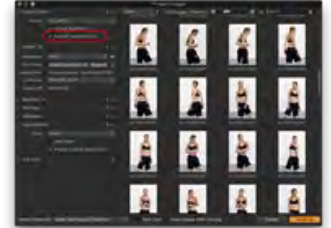
12. In the **Space Left** field, verify the capacity left on the volume, or drive is enough to store the new images.
13. Select options for backing-up, naming images, copyright and adjustments as desired. (For more detailed information, see below.)
14. Press **Import All** or **Import X Images** for selected images, if no further options are required. (Note you can always add adjustments later, of course, and easily add copyright info and rename files.)

Excluding duplicates

Capture One can determine if a source image or a movie file is a duplicate of another already referenced or managed by the current Catalog. You can specify the importer to ignore image duplicates when importing from folders already on your computer or external drive, for example when importing your existing image library into a Catalog, or when importing images from a memory card to your local computer or an external drive. This feature is particularly useful when importing from memory cards that haven't been erased or formatted between use. Previously imported images remaining on the card can now be excluded from the import process, thereby preventing unnecessary duplication.

After enabling the feature in the importer dialog window, images are individually scanned in the importer's browser prior to import. Images that match key metadata in the Catalog's database are removed from the importer's browser and excluded from the import. When importing a previously adjusted image with the settings file (e.g., when referencing images a second time from a folder on your computer) and the Include Existing Adjustments option is enabled in the importer, the image is considered a duplicate. Note also the import dialog can't identify duplicate images when files have been saved in a different format.

1. Open the import dialog window
2. In the **Import From** panel, select **Exclude Duplicates**. This option can be left enabled for future use.



Viewing images stored on your computer

To view and edit source images already stored on your computer you must first import them into Capture One's database. When importing like this, Capture One is not duplicating or copying the source files but referencing them in their existing location. This procedure also applies when you're referencing source images stored on an external drive. If you're importing a large library of images, the rendering of individual previews for every image may take some time.

1. Open the importer by choosing one of the following options:
 - o From the main menu choose File > Import Images...
 - o Click on the Import icon in the Toolbar.
 - o Drag a volume or folder of images into the Capture One image browser.
 - o Click on the Import icon in the browser of a new catalog
2. The Import Images dialog (i.e., the importer) opens. When a folder has been dragged into the Capture One image browser, the contents of that folder are displayed as thumbnails in the importer's browser.
3. When searching for images to import, from the **Import From** tool, click on the **Source** fly-out menu and select **Choose Folder...** And navigate to the relevant folder you want to reference. The images will then be shown as thumbnails in the importer's browser and every image selected automatically for import.
4. Make sure that the **Include Subfolders** check box is selected in the Import From tool. Note this option should be used when maintaining a previously organized folder of images (i.e., an existing image library).
5. Enable **Exclude Duplicates** to prevent duplication of images already imported by your current Catalog.
6. When you want to select specific images to import, adopt the usual shift-click to select contiguous images, or Cmd+click (Mac), Ctrl+click (Windows) to select individual images. When you want to reset the image selection,



- click on the background between thumbnails.
7. In the **Import To** tool, select or verify the **Current Location** option listed in the **Destination** fly-out menu. This is intended for referencing image files in situ. Note the importer remembers the last selection and, therefore, the current setting may not be suitable for your intended storage location.
 8. Verify the **Collection** text box is set to **Recent Imports Only**. If already set-up, you can use the other settings to sort images into existing User Collections (i.e., existing albums, or albums based on templates). (For more information, see below.)
 9. Select options for backing-up, captioning and adjustments as desired. (For more detailed information, see below.) Note copyright and renaming options will be disabled when referencing images in their current location.
 10. Press **Import All** or **Import XX Images** for selected images, if no further options are required. (Note you can add adjustments, copyright info and rename files later.)

Importing images inside a Catalog

Although a Catalog will be typically chosen to reference folders of images, either when importing from external media or when importing folders already in place on your computer or external drive, Capture One can store the original image files physically inside a Catalog. This managed file option can be used when you want a temporary or portable Catalog to distribute or share with colleagues. You can import images from a folder on any external media or already on your computer. Original image files are duplicated, even when already located on your computer.

1. From the **Import From** tool click on the **Source** fly-out and select the folder you want to import (from any location).
2. Enable **Exclude Duplicates** to prevent duplication of images already imported by your current Catalog.
3. In the **Import To** tool under **Destination**, verify the option **Inside Catalog** is selected. Note the importer remembers the last selection and, therefore, the current setting may not be suitable for your intended storage location.
4. Warning! Image files are copied and stored physically inside the Catalog itself (not recommended when hard disk capacity is limited). Note the storage location can be changed when creating and setting up the catalog.
5. Continue to verify or make selections for importing into albums, file naming, backing-up, copyright and adjustments, as desired.
6. Click **OK** to start the import process.



Creating a folder structure on import

When downloading images from external media you can use the importer to organize those images into subfolders. This feature can be used in a number of different ways.

Firstly, it allows you to adopt an existing storage strategy if you have one, but you can use it to simply segregate a group of images from an existing folder of images or create just about any hierarchical folder structure. You can also save these folder structures as user presets and switch between them when necessary.

In addition, you can combine this with Capture One's dynamic locations feature. By leveraging Capture One's database access to the image metadata, the Location Sub Folder Tokens enable the importer to automatically create, organize and name folders of images when downloading. The Location Sub Folder Tokens are also available in the Export dialog, so you can semi-automate the organizing of folders when it is time to share a selection of images.

1. Open the importer and, from the **Source** fly-out menu, select the images you want to import.
2. In the **Import To** tool, click on the **Destination** fly-out menu and select **Choose Folder...** to set where to store the source files.
3. Navigate to either an existing system folder, or create and name a new folder on the local computer or an external disk, as desired, and click **Set**



- as **Import Folder**. Recently used folders appear as shortcuts. When selected, the **Sub Folder** field is revealed. Note this option is unavailable when selecting Inside Catalog or Current Location.
- To create a single subfolder, add a descriptive name in the **Sub Folder** text field, and move to step 9.
 - To create and organize images in multiple sub-folders based on metadata, click on the (...) icon next to the Sub Folder text field to open the Location Sub Folder Tokens dialog and select the appropriate tokens available in the list.
 - Text and tokens may be used together in the Sub Folder text field or the dialog's Format text box.
 - When creating hierarchical sub-folders, add a forward/backward slash (Mac/Windows) without spaces in between each new folder name or token used. Each forward/backward slash adds a subfolder to the preceding text entry or token. (Folder structures created in the Location Sub Folder Tokens dialog can be saved as a user preset. Click on Save User Preset... Add a name and select Save.)
 - When using the Location Sub Folder Tokens dialog, remember to click OK to accept the naming/folder-structure format.
 - In the **Sample Path** field, verify the path is pointing to the chosen folder for import.
 - Continue with options for backing-up, file-naming copyright and adjustments, as desired.

Adding images to a Collection on import

You can choose to have Capture One import images into a previously created Album or Capture Collection (an Album set up as a Capture Collection) in your Catalog. Albums are a useful option to have when you want to organize images in a different way without disrupting your existing storage strategy. As Albums are virtual folders, images aren't copied or moved but merely referenced in their destination folder. Therefore, this option is available when importing from external media, when referencing images already stored on your computer or external drive, or when importing images inside a Catalog as managed files.

- Before importing, head to the Library and select the appropriate Capture Collection or Album. The chosen album will be highlighted in orange initially, then silver-gray.
- Open the importer and select the options in the Import From and Import To tools as appropriate to your intended workflow.
- From the Collection fly-out select from either:
 - Capture Collection** - select this to add imported images to the current capture collection (i.e., an album previously setup as a capture collection, denoted by a small camera icon.)
 - Selected Album** - choose this to add imported images to an existing album. This option only works with albums (i.e., not projects or smart albums).
- The **Recent Imports Only** option should be selected when you no longer want to use this feature.



Backing up images on import

A simultaneous copy of the imported images can be chosen from the Backup To tool in the importer. For example, importing images from a memory card can be downloaded (i.e. copied) to the Pictures/My Pictures (Mac/Windows) folder on your laptop, and simultaneously backed up (i.e., copied again) to a connected portable external drive.

Warning! While this is a useful option for a temporary backup, it should not replace your principal backup strategy.

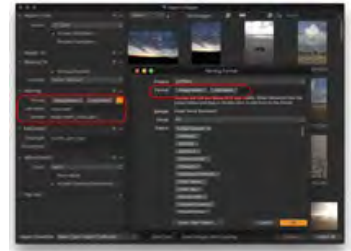
- In the **Backup To** dialog, select the **Backup Enabled** option.
- From the **Location** fly-out menu, choose **Select folder...** and navigate to your chosen location, such as an external drive, ideally, and select either an existing folder or create and name a new folder from the dialog.
- Images will be duplicated to the selected backup folder on import.



Renaming images draft

When left to the default setting, with the **Image Name** token in the Format field of the Naming tool, Capture One will leave the original file names unchanged. However, you can rename the images using text or tokens, or any combination of the two. There is a wide range of naming tokens available, organized by type for easy reference, and there are a number of built-in presets for commonly used naming conventions. You can easily create your own presets as well. Note when importing images already stored on your computer or external drive and referencing them in their original location (i.e., not moving them), the Naming dialog is disabled. For more information on naming and renaming, see File Naming.

1. Go to the **Naming** dialog.
2. In the **Format** field, verify previous image naming entries (Capture One adopts the last used, and this may not be relevant this time). To maintain the original image file names only, verify that the **Image Name** token is in place.
3. To rename images, add text or combination of text and tokens in the Format field. (If you know the token names already, start typing in the Format field to reveal a list and select the relevant name.) Alternatively, click on the adjacent action button (... icon) to choose from the range of tokens. The **Naming** Format dialog window opens.
4. Select the desired naming choice by dragging or double-clicking on the tokens in the flat list, or select from the organized Group list, or a built-in combination from the Presets fly-out menu. Any combination of text and tokens can be saved as a user preset.
5. When the Job Name token is selected, the **Job Name** field in the Naming tool becomes active. Use this option to add a relevant name, such as the job's name, your name, or the company name, for example.
6. Click **OK** to accept the changes. The Naming Format dialog closes and adds the chosen combination to the Naming tool's Format field.
7. Add text in the Job Name field, see step 5.
8. In the **Sample** field, verify that name is in the desired format.
9. After pressing Import or Import All, any changes made will be applied to the images as they're imported.



Adding copyright and a description on import

Use the Metadata tool to fill in copyright information and a description or caption, if desired. The tool remembers data, so adding copyright information doesn't have to be re-entered for each import. You can leave both fields blank if you're unsure how the images will be used as both can be added after import.



Add adjustments on import

You can add image adjustments when importing from external media. It is limited to the automatic adjustments found in the main toolbar, but you can also apply styles and presets which can be extensive. You can also use this to apply certain keywords, if they've been saved previously as a user preset. When referencing images that have been worked on previously in Capture One, the Include Existing Adjustments option should be selected so that any previously made adjustments and settings can be applied. It can be left permanently selected, just in case.

1. In the **Adjustments** tool, check mark the **Auto Adjust** option to apply on import the automatic adjustments selected from the Toolbar. (Note this option may slow down the import process.)
2. Presets and/or styles can also be applied to images during import. Select the relevant options from the **Styles** fly-out menu.
3. Select the **Include Existing Adjustments** check box if you are importing RAW files that have already been worked on in Capture One. This option imports and applies all adjustments and settings (i.e., ratings, keywords, copyright info, and any other metadata) associated with each image file.



4. Selected adjustments will be applied on import.

Sorting images prior to import

Images can be sorted by a variety of criteria, and selected individually.

1. Click on the sort-menu field, top-left of the browser window and choose an option from the fly-out menu.
2. Click on the arrow to change the sorting orientation.
3. Thumbnails can be resized using the slider opposite the sort-menu field, located top right.
4. When you want to choose individual images to import, shift-click to select adjacent images. To select non-adjacent images, Cmd+click (Mac), Ctrl+click (Windows) (clicking on single images will reveal data in the File Info panel, after clicking on the disclosure button).
5. When you want to reset the image selection, click on the background between the thumbnails.



Importer options

As Capture One allows you to continue working while images are imported in the background, the importer offers some useful additional options. This includes notifications during the importing process, as well as erasing the images from the card after copying and ejecting the card from the Finder/Explorer.

- From the **Import Collection** fly-out, select **Notify When Done** if you want to be notified of the completed import, or leave the default **Open Collection When Import Starts** to start work on the files. If you want to continue to work without distraction, select **Never Open Import Collection**.
- Options to **Eject Card** and/or **Erase Images After Copying** are also available.



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Importing Catalogs and Sessions

In addition to importing entire Capture One Catalogs and Sessions and their associated images, you can also import Media Pro Catalogs, as well as Lightroom catalogs and Aperture Libraries.

- An overview of importing and exporting Catalogs
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An overview of importing and exporting Catalogs ^{Pro}

Capture One Pro offers users the option to import and export Capture One Catalogs. Rather than switching between multiple Catalogs, importing small working Catalogs and creating one main or master Catalog may simplify workflow and improve search queries.

Also, this new functionality is useful when, for example, you want to send a small Catalog with images off to the retoucher, and then later import the Catalog with the adjustments back into the original master Catalog.

The flexibility of importing and exporting of Catalogs will also be popular with location photographers. For example, Catalogs complete with the images and adjustments created on a laptop may easily be transferred to a desktop computer back in the studio, or at home.



Upgrading imported Catalogs, Sessions and variants ^{Pro}

Catalogs or Sessions created in earlier versions of Capture One that have been merged and opened from within a Catalog using the latest version of Capture One Pro must be upgraded to ensure compatibility with the database. A warning dialog will be displayed with the option to Upgrade and Open, or Cancel. While the upgrade is irreversible, settings and adjustments are preserved. Individual variants may still be processed using the earlier version's tools and processing engine.

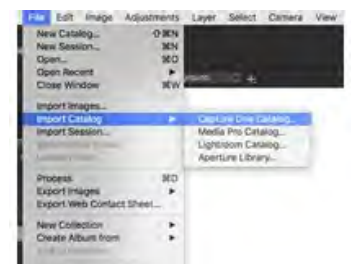


So that you can benefit from the new tools and image quality enhancements, older variants will also require upgrading for compatibility with the latest processing engine. Before committing, you can test the effect of the new processing engine on images by cloning the variant first (select image, right-click > Clone Variant). You can then upgrade the settings on the clone and compare and the two side-by-side before committing further variants to the upgrade.

Importing a Capture One Catalog ^{Pro}

Imported Capture One Catalogs are duplicated and merged with the current open main or master Catalog. Note, however, when there are source images located within the imported catalog as managed files, these are **not** imported and remain inside the original Catalog. Any duplicated variants in the imported Catalog will be referenced to the original source files. The Catalog is imported in the background, so that you may continue to work uninterrupted.

1. Open Capture One Pro and from the main menu choose File > Import



Catalog > Capture One Catalog...

2. Navigate to the Catalog (<name>.cocatalog), select and click **Import**, or, optionally, double-click on the catalog file to imported.
3. If the 'master' Catalog already contains one or more of the variants in the Catalog to be imported, a dialog box will ask you to choose which variants you would like to keep. Choose between Stop, All, Existing and Imported. Check mark the box to apply the choice to all the variants.

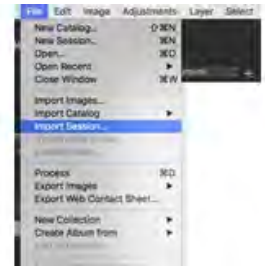
Importing a Capture One Session ^{Pro}

In addition to importing or merging smaller Capture One Catalogs, you can also import Sessions into a Catalog. As Sessions are typically stored on the computer with the source images and adjustments, you can use this option to free space on your hard disk. This is a useful solution when using a laptop on location.

The Catalog references the source image files in the Session folder and imports all the necessary settings from the Session. Collections will be imported as Projects with Session Folders, Albums and Projects preserved as individual Albums.

You can manage multiple Session folders from one master Catalog and continue to make new image adjustments using the Catalog. Note the original Session remains unaltered.

1. Copy the parent Session folder (complete with all the source images and adjustments) to an external drive for storage or archiving.
2. Open a Catalog, for example on your desktop computer that's connected to the external drive.
3. From the main menu, choose File > Import Session...
4. Navigate to the enclosing Session Folder, open it and select the database file (<name>.cosessiondb).
5. Select Import, or, optionally, double-click on the file to initiate the import of the variants, adjustments and metadata. No source images contained within the Session sub-folders are copied or moved from their new location.
6. **Warning!** Only delete the Session folder from your computer after verifying the images are securely backed-up.



Importing catalogs from Media Pro, Lightroom or Aperture

In addition to the typical workflow of importing image files from various sources, you can use a Capture One Catalog to import previously made catalogs of images from third-party applications. A Capture One Catalog can import Lightroom Catalogs and Aperture Libraries, albeit with some restrictions. Images are not moved or duplicated but referenced in their original location, including any images stored physically inside the Aperture Library. You can also import Phase One Media Pro and Media Pro SE catalogs.

The importer is not used in this instance, however the underlying process is practically identical. Capture One creates variants for each of the original image files, which are referenced in their original location (i.e., the original images are not moved, or duplicated). You can then continue with your typical workflow using a Capture One Catalog instead.

1. Open an existing Capture One Catalog or create a new one.
2. From the main menu, go to File > Import Catalog, and then select the relevant type from the list:
 - o Lightroom Catalog...
 - o Aperture Library...
 - o Media Pro Catalog...
3. A Finder/Explorer system window opens. Navigate to the relevant file type (only the type of database chosen above in step 2 can be selected):
 - o Lightroom catalog - [name].lrcat



- Aperture Library - [name].aplibrary
 - Media Pro - [name].mpcatalog
4. A small **Activities** dialog window opens showing a progress bar of the import.
 5. If any original source images are offline (e.g., when referenced to a disconnected external drive), a warning dialog opens prompting you to **Skip All**, **Skip** (specific files), **Retry** or **Stop** and dismiss the action.

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Organizing Images in a Catalog

After you have imported images into your Catalog the next step is to organize them. You can use system-based Folders, or organize your images using virtual folders; Projects, Groups and Albums.

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Catalog and User Collections

The content of the Catalog Collections window cannot be changed and shows fixed collections of all the images in the current Catalog, recent imports, recent captures and the trash. The last ten Imports and last ten Capture sessions are always available to view here as a fixed album.

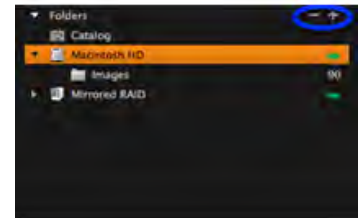


Folders tool

The Folders tool lets users see where referenced source image files are located. The subheading Catalog shows if there are any source image files placed inside the Catalog.

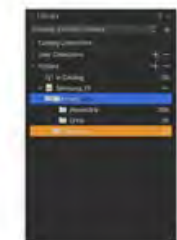
Essential information:

- Right-clicking on the folder will show a number of options including one to reveal the complete file system hierarchy.
- Click on the plus icon (circled) to add folders for the catalog database to recognize. This can be useful if you want to move images from one folder to a new folder. Remember to always complete actions like this within Capture One Pro so that the Catalog database can keep track of changes.
- Click on the minus icon (circled) to remove a folder from this section.



Moving folders

Moving folders of referenced images in the Finder or Explorer (Mac/Windows) will result in broken links and the images will be displayed as Offline. Fortunately, folders and their contents (i.e., source image files) can be moved from within the Catalog's Library tool. Not only can this feature be used to organize folders locally, but it can even be employed to move folders and their images to an external drive. This allows the Catalog to keep track of referenced images wherever they're moved to and maintains the link between them.



Note that all of the source image files (i.e., RAW, JPEG and TIFF etc) within the folder will be moved, whether they've all been referenced or not. You can use the Synchronize feature to import and reference any additional images, see [here for more information](#).

1. From the Library Tool Tab, go to Library tool's Folders dialog.
2. Navigate to the folder that requires moving and then click and drag to the new location.
3. The receiving folder or directory will be highlighted and a warning dialog open to will remind you that the folder and contents will be moved, and that the operation can't be undone. Note while the operation can't be undone using the Undo command (e.g. From the menu, select Edit > Undo), the folder can in fact be moved back. Simply repeat the process from step 2.

Updating a folder ^{Pro}

Although source image files can be referenced anywhere on a disk with a Catalog, they are typically stored in a folder (which is then displayed in the Library). When changes have been made to a referenced folder outside of the Catalog, for example, when adding images using another application, the Catalog can be updated using the Synchronize Folder option. As the Import dialog is used in-part, new images can be renamed, backed up and adjustments applied automatically. Deleted or missing images may also be removed from the Catalog during this process.

1. From the [Library Tool Tab](#), select the **Folder** that requires updating.
2. Go to the main menu and select **File > Synchronize Folder...**
3. Check mark the relevant boxes in the Synchronize prompt and press the **Sync** button. A new Import window opens.
4. Select the images as required to add to the Folder, and check-mark the options for renaming, backing up and adding styles, as appropriate.



Virtual organization

A Catalog can store single image files, Projects, Albums, [Smart Albums](#) and Groups.

Groups: A group is a freeform organizing item. It can contain other groups, projects, albums etc. - it is a simple way to group items. A Smart Album located within a group will search for files located outside the group. (A project in contrast will limit the search scope of, for example, smart albums within it and cannot contain other projects).

Albums: Put an image into several albums without creating copies or using more hard disk space. This saves on hard disk space and makes for easier organization. Editing an image in one album will, of course, be reflected in all other albums, which contain the same image.

Projects: Group your albums into projects, search and filter for images within a project. A project will limit the search scope of, for example, Smart Albums within it. (i.e. A Smart Album will only search for files within a project unlike a group). A project cannot contain other projects.

Organize your images into albums, your albums into projects and your projects into groups. It is easy to drag and drop images between collections within different projects.



Organizing a Catalog: Creating a Group

1. Go to the Library tool and press the + (plus) icon at the top of the User tab.
2. Select one of the [four options](#).
3. In this example, a Group has been chosen and named *People*.
4. It is possible to add a number of Projects or Albums within the Group, if

desired. In this case, an Album has been selected to help organize the different models within the Studio Portraits catalog.

5. Drag and drop selected image files from the catalog into the newly created Album.



Create a catalog template ^{Pro}

Making a Catalog Template allows you to create a new catalog with a predetermined set of [User Collections](#), instead of starting from scratch. This may be a valuable time saving exercise if you adopt a complex hierarchy of User Collections. Nested Albums, Smart Albums complete with rules (search criteria and active filters), Projects and Groups are all duplicated from within the open Catalog. Note, no images are copied into the Catalog when creating a Template.

1. Open a catalog and navigate to the Library tool with a set of User Collections that you intend to copy. Select **File > Save As Template...** A dialog box will open to save the file.
2. Choose a suitable name for the Template. Select **Save**.
3. From the Library, click on the **+** (plus) with reveal icon (top right) and select **New Catalog...** Or select **File > New Catalog...** (shortcut Shift+Cmd+N). A dialog box will appear.
4. Select an appropriate name for the new Catalog, select a location for the Catalog to be saved to (or choose to retain the existing location) and select the appropriate **Template** from the drop-down menu.
5. Check mark the box underneath to open the new catalog alongside the already open Catalog, or uncheck to close the existing Catalog and open the new one.



Searching for images

The Library tool tab also has a Filters tool that is useful for global searches or groupings, allowing a quick comparison across thousands of files. A Catalog offers full searchable functionality of image files from the Filters tool.

There are a number of ways to use the filters. There are visual indicators that let users see how many images have, for example, a 5-star rating and/or a color tag. The number next to the relevant color or star in the Filters tool represents how many images fulfil that criterion. Clicking and selecting on that number (represented by an orange dot) will filter all the images with those particular criteria so that they appear in the browser.



Add star ratings and color tags

1. Ensure the Library tool tab is open. Select one or more thumbnails in the browser.
2. Drag and drop the thumbnail(s) on to the desired star rating or color tag in the Filters tools.

Tip: Press 0 (zero) on your keyboard to remove a star rating.

Discover [other ways](#) to add color tags and star ratings.



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Working with Multiple Catalogs

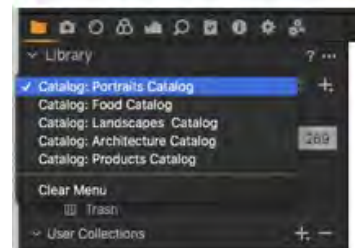
In Capture One you are not restricted to working in any one Catalog or Session at a time.

- Switching between Catalogs
- Exporting a Catalog
- Deleting a Catalog
- Offline browsing
- Video tutorial: Offline browsing
- Sharing and working in the same Catalog

Switching between Catalogs ^{Pro}

If Capture One is open and you have previously created a Catalog, you can open and run another and switch between them, without having to close one. You can also open and work in a Session in the same way, when needed.

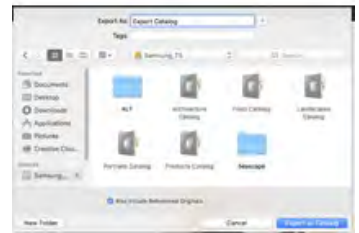
1. Go to the Library tool tab and select a Catalog from the drop down menu.
2. A Catalog will open in a new window.



Exporting a Catalog ^{Pro}

Any Catalog Collection, Folder or User Collection (Album, Smart Album, Group or Project) in an existing Catalog may be exported as a new separate Catalog, that can be shared and worked on by colleagues.

1. From the Library tool, under Catalog Collections, User Collections or Folders, select the folder to be exported as a new Catalog. If certain images from one or more folders are required to be exported, create a dedicated album to export.
2. Right-click (Windows) or control-click (Mac) the relevant folder or album and select **Export as Catalog...** Alternatively, select the folder or album and from the main menu, select File > Export as Catalog...
3. From the dialog box, specify a name for the Catalog to be exported, and select a destination.
4. Check mark the **Include Originals** box to add referenced image files, if required. Selecting this option will make a copy of the original image files (if they're available to Capture One) and place them **inside** the Catalog. Any managed images selected (i.e. originals stored within the Catalog) will be copied regardless. Note, including the original images as managed files when exporting will increase the size of the Catalog proportionately.



Deleting a Catalog

You cannot delete a Catalog from within Capture One. This can only be achieved from the Finder/Explorer (Mac/Windows). **Warning!** Deleting a Catalog with source images inside will also result in the loss of those files. You can check to see if a Catalog has any source images inside from the Library. There will be a number displaying the total next to the Catalog folder under the Folders sub-heading.

1. Navigate to the Catalog (<name>.cocatalog) file in the Finder/Explorer (Mac/Windows), click on it and select Move to Trash/Recycle Bin



- (Mac/Windows).
2. The Catalog along with the previews and adjustments will be moved to the system trash. **Warning!** Any source images files inside the Catalog (if there are any) will also be moved to the trash.
 3. Emptying the trash/recycling bin will permanently delete the Catalog (and potentially any source image files residing in the Catalog). **Warning!** This action cannot be undone.

Offline browsing

Catalogs referencing source images that are located on an external hard drive or a server can still be browsed when they are offline. It is even possible to apply some image adjustments. Working offline can prove useful when, for example, you are working with a laptop and away from your image collection in the studio. A number of adjustments and metadata edits can be made.

1. Go to the **Folders** section of the **Library** tool. By default the folder hierarchy shows the root folder, and the folder the images are stored in.
2. To see the complete hierarchy, right-click on the folder and choose **Show Folders Hierarchy**. If the external location is unavailable, it will be flagged with a question mark. The image in the Viewer will also be tagged with a question mark and shown as offline. (See circled).
3. Apply adjustments using the available tools. Tools that are grayed out cannot be used when the source images are offline. The full-range of Capture One's toolset will become available once the Catalog is re-connected with the source images.



Video tutorial: Offline browsing

Learn more about Offline Browsing in this video tutorial, and how to relocate images when they become separated from the Catalog. (Click on the image to the right).

If your images are no longer online with the current Catalog, they can still be browsed and some image adjustments made. This is useful if you keep your cataloged files on external drives or servers but would still like to browse 'offline'.



Sharing and working in the same Catalog ^{Pro}

It is possible for several people to share and work on the same Catalog. It is also possible to lock a Catalog (restricting it to a 'View Only' mode) to ensure no changes can be made to it.

To lock a Catalog...

1. Go to **File > Lock Catalog...**
2. A dialog box will appear. Press the Lock button and the window will reopen.
3. A locked Catalog can be opened by multiple users simultaneously, but no changes can be made to it. Notice the icon in the bottom right corner of the thumbnail. (See circled). All editing tools will also become disabled.
4. Go to **File > Unlock Catalog...** to remove the restrictions.



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Working with Networks

Whether you're an individual with one or two computers or you're part of an organization or group, Capture One is network compatible and capable of handling access from multiple computers.

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- [Creating and saving a Catalog on a network drive](#)
- [Importing and storing images on a network](#)
- [Viewing images stored on a network](#)
- [Sharing Catalogs over a network with multiple users](#)
- [Unlocking a Read Only Catalog](#)

A note on licensing

With the proliferation of computers within the home and at work, from Capture One 9 and onwards the number of activations allowable under the terms of a single-user license was increased from two to three. The single-user license allows one individual to install and use Capture One on up to three computers.

A single-user can, for example, install and use Capture One on a tablet, a laptop and a workstation. If Capture One is required to be installed and activated on more than three computers at a time, you may either have to deactivate one first to run the application on another, or purchase an appropriate license.

If more than one user wants to use Capture One simultaneously, a multi-user license is required. For example, if two users require access to Capture One on a network, a "2-seat" license is required. Please make sure you have the appropriate license for the required number of active user installations or "seats", otherwise Capture One will not work as expected.

You can find the number of activations you have left for your current license by going to the License window, select Capture One/Help > License... (macOS/Windows). Alternatively, you can view the same information and update your license by logging on to your Phase One profile at phaseone.com, My Pages > License Management.

Creating and saving a Catalog on a network drive

Catalogs can be saved and stored on a network drive along with the source images, either stored separately as referenced files, or managed with the images stored within the Catalog itself in much the same way as any external drive. Constant access is of course required, and you must have a version of Capture One installed on your local computer that's compatible with the Catalog on the network drive. If you do not, you will be asked to upgrade your local version of Capture One.

1. Connect to your network drive.
2. Open Capture One and choose one from the following options:
 - o From the Recents Window, select New Catalog...
 - o From the main menu, select File > New Catalog...
 - o From the Library, click on the + icon and from the menu, select New Catalog...
3. A **New Catalog** dialog opens.
4. In the **Name** text field, give a descriptive name to the new Catalog (e.g., Network Library).
5. Adjacent to the **Location** text field, click on the action (...) icon. A System window opens to select the location to save the Catalog to.
6. Navigate to the network drive or NAS and either select that as the root (top-level) folder, select New Folder to create and name a new one, or select an existing folder and select Choose.
7. From the **Template** drop-down menu, select a previously created template of albums and collections, or leave set to **Blank** if not.
8. Select **OK**. A New Catalog is created and opens.
9. You can now start to "import" (i.e., reference/index and cache) the source images on the network drive. See below for more details.

Importing and storing images on a network

Capture One Catalogs may be used to import source images such as RAW/TIFFs/JPEGs from external media such as a memory card, flash-disk or portable drive, directly to a network drive or NAS.

For improved performance it is recommended that the Catalog is stored locally (i.e., on a local computer). When accessing a network or NAS the following descriptions presume fast and reliable connection using gigabit ethernet, and not Wi-Fi.

1. Open an existing Catalog, or create a new one, as appropriate to your workflow.
2. Open the importer (File > Import Images... or click on the import icon in the toolbar), the import window opens.
3. Go to **Import From** and select, for example, the memory card or an existing folder on your portable drive from the **Source** drop-down menu. The images to be 'imported' (i.e., copied, as well as indexed and cached) will be displayed the importer's browser.
4. From the **Import To** option select an appropriate folder on the network drive or NAS.
5. As an option, create a subfolder by adding a folder name or token in the **Sub Folder** field.
6. As an option, enable backup to, change file naming (when left to the default Image Name token, images will not be renamed), and add metadata and adjustments as required.
7. Select the images required in the browser and click **Import (X) Images** or select **Import All**.

Viewing images stored on a network

You can easily access images already stored on a network drive or NAS using Capture One. Before viewing and working on images using a Catalog, the images must first be 'imported' (i.e., indexed and cached) using the importer tool. The Catalog may be stored either locally or on a network drive (NAS). Note if the Catalog is stored on a network drive or NAS, the drive and Catalog must be available to Capture One to open it.

1. Open an existing Catalog or create a new one, saving it on your local computer or network drive (depending on your chosen workflow).
2. Open the importer (File > Import Images... or click on the import icon in the toolbar), the import window opens.
3. From **Import From** select the existing image folder on your network drive or NAS from the **Source** drop-down menu. The images to be 'imported' (i.e., indexed and cached within the database) will be displayed the importer's browser. (Add a checkmark to the Include Subfolders box.)
4. From the **Import To** option, select **Current Location** in the **Destination** drop-down menu. In the **Collection** drop-down menu, select **Recent Imports Only**. Select the option **Capture Collection** or **Selected Album** only if you have previously created and selected a capture collection (an album used like a capture folder) or an album in the Library specifically for the 'imported' images.
5. As an option, enable Backup to, and add Metadata and Adjustments as required. Note Naming is disabled when indexing images in the current location.
6. Select the images required in the browser and click **Import (x) Images** or select **Import All**.

Sharing Catalogs over a network with multiple users

When making adjustments on a networked Catalog, other users on the network attempting to make their-own adjustments will be unable to open the Catalog - a warning dialog will open advising the second user that it is in use. The Catalog can only be opened when no other users have it opened, or when it is locked.

If a user wants to share the Catalog with others on the network it must be locked first, however no-one will be able to make adjustments. When the Catalog is locked, other users will be able to view and search for images.

1. Connect to your network drive.
2. Navigate to your chosen Catalog (name.cocatalog) and Ctrl/right-click on it and select open, double-click or drag the file to the Capture One icon in the dock (macOS only).
3. You will be presented with one of following options:
 - o If the Catalog opens as normal, no other network user has the Catalog open and you can proceed to use the Catalog as normal.
 - o If a dialog opens with the message **Unable to Open Catalog**, another network user is making adjustments.
 - o If the tools are grayed out, and the Catalog displays (**Locked: Read Only**), then the Catalog is unavailable for changes and another network user may already be viewing it. See step 4.
4. Go to File > Unlock Catalog... to attempt to access the Catalog. Capture One will close and restart the Catalog. There are two possible outcomes:
 - o If it unlocks and the tools are not grayed-out, you will be able to make changes as normal.
 - o If the tools remain grayed out, then another network user is viewing the Catalog. You can only view and search for images.

Unlocking a Read Only Catalog

When you have opened a Catalog and the tools are grayed out and the Catalog name displays (Locked: Read Only), then the Catalog is unavailable for changes. This is most likely to occur when a Catalog is stored on a network drive or NAS and another network user is viewing it.

1. Go to File > Unlock Catalog... to attempt to access the Catalog. Capture One will close and restart the Catalog. There are two possible outcomes:
 - If the tools remain grayed out, then another network user is viewing the Catalog. You can only view and search for images.
 - If it unlocks and the tools are not grayed-out, you will be able to make changes as normal.

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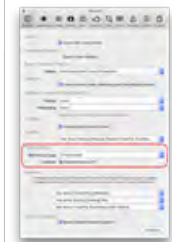
Backing-up a Catalog

This section provides information about backing-up a Catalog. It also describes how to restore a Catalog, should anything go wrong, and how to verify a Catalog to keep it in good shape.

- [Backing up a Catalog](#)
- [Restoring a Catalog from a backup](#)
- [Verifying and optimizing a Catalog](#)

Backing up a Catalog

Backup Catalogs do NOT contain any original images (i.e. RAW, TIFF or JPEG files etc), whether referenced or managed (i.e., stored physically inside the Catalog). Note, however, database and adjustment settings are included that may have been built-up up over years, therefore, Catalogs should be backed-up regularly. Capture One has its own system that allows a backup to be stored on your local computer, or, where possible, backup to an external disk. This backup location can be the same disk as the source of the original images. How often you backup will depend on your volume of work. For example, once a week may be sufficient if you use Capture One regularly, however, if you use it only periodically then select Always. Backing up a particular Catalog on a regular basis will result in more (dated) copies to attempt to restore it from.



1. Go to the main menu, Capture One [version]/Edit (macOS/Windows) > Preferences... The Preferences dialog window opens.
2. Select the **General** tab and go to the **Catalog Backup** panel.
3. From the **Remind on close** fly out menu, select the frequency for backing-up based on the volume of work.
4. From **Location**, a path is shown to the current backup location. Click on the arrow icon to verify the setting. For a Mac, the default location is Macintosh HD > Users > [Username] > Library > Application Support > Capture One > Backups.
5. To back up to an external disk (recommended), attach an external disk and click on the action button (... icon) adjacent to the **Location** field. A new Finder/Explorer (macOS/Windows) dialog window opens.
6. Navigate to the external disk and either create a new folder and give it a logical name (e.g, Catalog Backups), or navigate to one created earlier and select Open. Thereafter, Catalogs will be backed-up to the same location. Note the external disk should be backed-up independently, as per your chosen backup regime.
7. Verify the destination location, as per step 4.
8. To initiate a backup at any time, from main menu, select File > Backup Catalog... otherwise when closing a Catalog, a Catalog Backup dialog window opens reminding you to back it up. You can leave the backup to the location already defined, or temporarily override the location from the dialog window (e.g., use this option when backing up to frequently changed external drives).
9. Additional options to **Test Integrity** and **Optimize Catalog** should be left enabled, unless you require a quick and temporary backup.
10. Select **Backup**. The Catalog will be backed-up and placed inside a timed and dated sub-folder. This folder is itself located within a folder with the same name as the Catalog, which is saved within the previously nominated folder (i.e., verified at step 4 or overridden at step 5). A second dialog opens to confirm successful backup with a path to confirm the location.
11. Select **OK** to close the Catalog.
12. Capture One remains open, and the Recents dialog opens so that you can

continue to work with either new or existing documents.

Restoring a Catalog from a backup

If you experience corruption of a Catalog, you can attempt to restore it from the corrupted Catalog itself, or from a backup copy if you have one. Regardless of which route is adopted, when attempting to open a damaged Catalog, a dialog window opens prompting you to either Restore from backup or Verify and Repair... In many cases the Verify and Repair option will be successful. If not, you will have to replace the original Catalog and restore it from a backup. If you have backed up that particular Catalog on a regular basis (see above for more details), there will be several dated copies to attempt to restore it from.

1. When you attempt to open a damaged Catalog, a dialog window opens prompting you to either **Restore from backup**, **Verify and Repair...** or cancel the operation.
2. Click on **Verify and Repair...** If the operation is a success, the Catalog will open. Perform a backup and then continue to use as normal. If the operation fails, the dialog window will re-open.
3. Click on **Restore from backup**. A Restore Catalog dialog window opens. If backups of that particular Catalog have been made, a list will be displayed by date (newest first) in the designated folder. For a Mac, the default location is Macintosh HD > Users > [Username] > Library > Application Support > Capture One > Backups. (You can verify the location of a specific folder. Select it from the list, the Ctrl/Right click and select Show in Finder/Explorer (macOS/Windows).
4. To change to another folder (e.g., another on a external disk), click on the action button (... icon) adjacent to the file path at the top of the dialog. A new Finder/Explorer dialog window opens.
5. Navigate to the folder and click **Open**. The Restore Catalog dialog is replaced with the prompt to replace and restore the existing database, or to return to the previous dialog.
6. Select **Restore**. The dialog is replaced with a progress bar during which time the database is replaced from the backup.
7. If the restoration is successful, the dialog will advise you and prompt you to select the **Open Catalog** button. The restored Catalog opens.
8. If an error occurred, the dialog will prompt you to try again. Follow any suggestions made, for example alter any incorrect permissions or fix insufficient disk space, and select **Try Again**.
9. If the restore option fails a second time, it may not be possible to restore from that file. The restore process cannot be reversed. Select **Cancel** and return to step 3, and choose the next file in the list, if there is one and repeat the steps.



Verifying and optimizing a Catalog

When closing a Catalog, Capture One automatically tests the integrity, structure and content of the database. The process searches for any errors that might eventually corrupt the database, and attempts to fix them before that occurs. Therefore, it's recommend that you do not disable that option. If you have, or you want peace of mind, you can check and optimize any Catalog manually, at anytime.

1. From an open Catalog (or Session), select File > Verify Catalog or Session... A Finder/Explorer window opens.
2. Navigate to the relevant Catalog ([name] .cocalogdb) and click **Open**. If you attempt to verify the already open Catalog, a warning dialog will open prompting you to close the Catalog before verifying.
3. A **Verify Catalog** dialog opens displaying a progress bar initially, then a path to the database, and a list of the checks. The verified Catalog is not automatically re-opened. Note if you've not upgraded the Catalog to use with the latest version of Capture One, the dialog displays a **Database**



verification FAILED message. To continue with the verification, click on **Upgrade** first, then **Verify**. See the section on [Upgrading a Catalog](#) for more information.

4. Select **Open** to launch the verified Catalog, or select **Verify** to repeat the process on the previously verified Catalog, or **Close** to dismiss the dialog (in order to continue working in the already open Catalog, or Session).

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Updating Earlier Catalogs

Catalogs produced by earlier versions must be updated, if they're to take advantage of the latest version of Capture One.

- Overview
- Upgrading an earlier Catalog

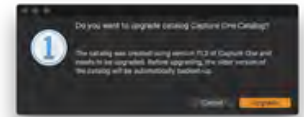
Overview

If you're upgrading from an earlier full release of Capture One, such as version 11 to version 12, you will need to upgrade any Catalog or Session created with an earlier version if you want to work in it with the new version. Upgrading only updates the database, allowing you take advantage of any improvements made. Image variants remain unaltered as the previous settings and adjustments are managed by the version process engine and a Capture One Catalog or Session can maintain several.

Upgrading an earlier Catalog

Catalogs produced by earlier versions Of Capture One must be updated to take advantage of any database enhancements in the latest full release (e.g., from version 11 to 12). Upgrading of Catalogs is not required between dot releases (e.g., 11.0 to 11.1).

1. Choose from one of the following to open an earlier version of a document:
 - o From the main menu, choose **File > Open...**, and navigate to the relevant document (i.e., with the .coccatlog extension) and double click on the file.
 - o From the main menu, choose **File > Open Recent...** and select the relevant document from the list. Note this menu shows only recently opened documents, and may have been cleared.
 - o From the Finder (macOS), or using Explorer (Windows), navigate to the relevant document (i.e., with the .cocatlog extension) and double click on the file.
2. Opening the document will display a warning dialog to **Upgrade**, or **Cancel**. Note, only the database is upgraded, the variants are NOT altered and the previous settings and adjustments are preserved from the earlier version of Capture One.
3. Click on **Upgrade**.



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Working with Sessions^{Pro}

SESSIONS / WORKFLOW / WORKSPACES

Sessions are favored for daily on-set workflow with direct interface to the computer's file system. Find out how to create a Session and start importing images.

An Overview of Sessions

Before starting work on your images, find out how Sessions can be used in your workflow, and how they differ from using a Catalog.

Importing Images into a Session

Find out how to import images from your card reader, connected camera, flash disk or portable external drive.

Organizing Images in Sessions

Discover how to organize images when using Sessions, create templates, and transfer Sessions between disks.

Working with Networks

Whether you're an individual with one or two computers or you're part of an organization or group, Capture One is network compatible and capable of handling access from multiple computers.

Updating Sessions

Sessions produced by earlier versions must be updated, if they're to take advantage of the latest version of Capture One.

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An Overview of Sessions

Before starting work on your images, find out how Sessions can be used in your workflow, and how they differ from using a Catalog.

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Introduction to Sessions

Use the Sessions function to organize all your work and any client project. Sessions enables you to store all files as a complete project that includes RAW files, setting files, library files, output files and paths to drives used in a project. For quick access and fast loading of folders you can create favorite folders for the locations used in a particular project.

Sessions are especially useful when you are shooting tethered. Simply create a tethered Session, plug in the camera and capture images directly to Capture One. This saves time compared to importing images after a shoot. [Shooting tethered](#) in Capture One can also help you get superior control. A shoot can be scrutinized as it happens, to help you fine-tune image parameters.

Opening a Session

After opening Capture One for the first time you will have created either a Catalog or Session in the process. If you created a Catalog when setting-up, and now want to switch and adopt the more project-oriented workflow of a Session, you will need to create a new Session (see below for more details). If you previously created a Session and want to continue working on the project, you can choose one of **four** ways to open it:

1. Choose File > Open. Navigate to the Session file and open Sessionname.cosessiondb.
2. Choose File > Open Recent. Choose a Session from the drop down menu. (This menu displays up to ten previously opened Sessions/Catalogs).
3. Drag and drop the Sessionname.cosessiondb file on to the Capture One icon located in your Dock (Mac only).
4. Double click on the Sessionname.cosessiondb file and it will automatically open in Capture One.



Video tutorial: Sessions

Learn about the benefits of Sessions in this in-depth video tutorial. (Click on the image to the right). Discover how to create, build and structure Sessions.



Creating a new Session

1. Select File > New Session. (Alternatively, go to the [Library Tool Tab](#) and

- press the + icon located next to the Switch Session/Catalog menu).
2. Name the Session.
 3. Choose a Template if set-up (or leave as Blank).
 4. Rename folders if desired.
 5. Decide on the placement of the Session folders.
 6. Press OK.

Find out more on creating a [Session Template](#).

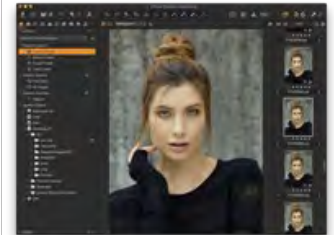
Adopting a file system based workflow

Sessions are convenient for professional photographers due to their default modular folder structure (consisting of Capture, Selects, Output and Trash sub-folders, and a separate Session database file). This makes them particularly well suited when working with a tethered camera in a studio, but they're also ideal for more typical day-to-day projects, where importing images from a memory card is expected. However, if you don't want to create a Session for each occasion and would prefer not to adopt a more managed Catalog-based workflow, you can use a single Session for a typical file system workflow instead.

Sessions work differently to Catalogs in that they automatically generate and store image cache and settings locally. These files are stored in a CaptureOne sub-folder within the source images' folder. You don't even have to import images using a Session, you can continue to use your existing workflow. Simply go to the folder or individual image using the Finder/Explorer (macOS/Windows) then drag and drop it into the Session window, or navigate to your image folders using the Session Library instead. The images will be displayed just as they would when using a Catalog or a typical Session. Any adjustments made are written to the local settings files and are used the next time you visit the image folder.

When the time comes to move the image folders, the accompanying Session database file of a typical Session isn't even necessary. Providing the CaptureOne sub-folder remains within the source images' folder, it can be moved to any location and viewed on any local computer running Capture One. Note that, using a Session this way will result in a loss of some search capability and will limit the effectiveness of favorites and albums.

1. Create a new single Session using a descriptive name (e.g., Image Library).
2. Drag and drop a folder (or individual image from the folder) into the Session window. Images are displayed in the browser, see steps 5 and 6.
3. Alternatively, from the Session's **Library** panel, go to the **Sessions Folders** collection and navigate to your existing folders of images.
4. Click-on a folder of images to display them. Thumbnails will be displayed in the browser.
5. Click-on an image in the browser to display the image in the viewer.
6. Continue using Capture One to make adjustments as normal.



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Importing Images into a Session

Find out how to import images from your card reader, connected camera, flash disk or portable external drive.

- Overview of importing in a Session
- Importing images from external media
- Excluding duplicates
- Creating an additional folder structure
- Backing up images on import
- Naming images on import
- Adding copyright and a description on import
- Adding adjustments on import
- Importing quickly

Overview of importing in a Session

Importing images into a Session involves a similar workflow to that of Catalogs. However, with Sessions the Import dialog is used solely for importing from external media such as memory cards, external disks and a connected camera when that is not being used for tethered capture.

Although there's no difference between a tethered Session and a regular Session, the importer is not used when tethering. Capture One will detect and recognize a supported camera model upon connection and the Camera inspector will be enabled to control, capture and manage storage.

If your camera is a supported model, however, and you want only to connect it to import images from it instead, you can deselect the relevant Provider (i.e., maker) option in the preferences. This will temporarily disable the tethering function until you decide otherwise. For more information on the subject, see Tethered Capture.

When a memory card is detected in a card reader or camera, the importer may open automatically. The setting that controls that can also be found in the preferences. Note that you can only import images from a connected camera's memory card if it supports the Mass storage protocol. Not all cameras support this feature, but some Nikon models do as an example.

Whatever the source the importer adds (i.e., copies) images into the Session's Capture sub-folder when left to the defaults. Naturally, the Import dialog allows you to select both the source and the destination.

Perhaps the greatest benefit of the importer to Sessions (and Catalog) users, particularly for those that are time-pressured and working with a high volume of images, is the ability to automate the organization of images into sub-folders by their metadata. By adopting Capture One's location tokens the importer can automatically sort images into dynamically named sub-folders. If you want to organize imported images by vertical and horizontal orientation, for example, simply select the Orientation token in the Sub Folder field and every imported image will be sorted into two sub-folders, named Landscape and Portrait. For more information on tokens, see Using Tokens in Dialogs.

When you regularly use sub-folders to manage complex shoots over the day, however, it may be better to set up fixed sub-folders in advance and save them as a template, which you can use for each new Session.

It isn't recommended to use the importer to access images on a local or external drive, like a Catalog. Doing so will copy the images and you will thus end up having duplicates of them. As the Library in a Session works like a regular file browser using the importer isn't always crucial either, like it is in a Catalog. You can drag and drop images into system folders instead using the Finder or Explorer instead. If the Session is open already, you'll see the images populate the Browser.

The import dialog can also be used to offer a quick back-up to an external drive, add copyright data and include a caption. Capture One will not alter image file names when left to the default setting, but you can rename them using text or tokens or a combination of the two. Like the location tokens, naming tokens automatically create text directly from the image metadata, saving you time on repetitive jobs.

It can also be used to apply groups of image adjustments with Styles or individual adjustments with Presets, which can be as diverse as your IPTC metadata for contact, content details, a complex set of keywords, or a simple +1 exposure compensation.

Finally, if you're a retoucher importing a set of EIP files and you're using the Import dialog, remember to add a check-mark to Include Existing Adjustments. If not, none of the accompanying files (adjustments, variants, ICC and LCC profiles, etc.) will be enabled and you'll see the file as captured with just the default settings applied.

Importing images from external media

Capture One's importer dialog allows you to import all the images from a memory card, connected camera, flash disk or portable external drive, or you can import selected images instead. Note that you can only import images from a connected camera's memory card if it supports the Mass storage protocol. Not all cameras support this feature, but some Nikon models do as an example.

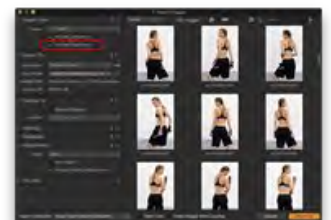


Although you can choose to store source images on a dedicated external drive, when working in a Session, it is best to store them on your local disk first, then move them off when you've finished with all of the adjustments and edits.

1. Open the importer by choosing one of the following options:
 - o From the main menu choose File > Import Images...
 - o Click on the Import icon in the Toolbar.
 - o Drag a volume or folder of images into the Capture One image browser.
 - o Connect your card reader to your computer.
2. The Import Images dialog (i.e., the importer) opens. When a card reader has been connected or when a folder has been dragged into the Capture One image browser, the contents of that folder are displayed as thumbnails in the importer's browser.
3. If the importer's browser isn't displaying your images, go to the **Import From** tool, click on the **Source** fly-out menu, select **Choose Folder...** and navigate to the relevant folder you want to import. Make sure that the **Include Subfolders** check box is selected in the Import From tool. This option is useful for locating all the images on a memory card.
4. Enable **Exclude Duplicates** to prevent duplication of images already imported into your current Session.
5. When you want to select specific images to import, adopt the usual shift-click to select contiguous images, or Cmd+click (Mac), Ctrl+click (Windows) to select individual images. When you want to reset the image selection, click on the background between thumbnails.
6. From the **Destination** fly-out, select the **Capture Folder**. This option is the standard folder to import files to when using Sessions. It maintains the standard Sessions structure of Capture, Selects, Output and Trash subfolders.
7. In the optional **Sub Folder** field, add a subfolder or a series of hierarchical subfolders. Select this only if you want to organize the imported images into subfolders within the parent Capture Folder. (See below for more information.)
8. From the **Sample Path** field, verify the path is pointing to the **chosen folder for import**.
9. In the **Space Left** field, verify the capacity left on the volume or drive is enough to store the new images.
10. Select options for backing-up, naming images, copyright and adjustments as desired. (For more detailed information, see below.)
11. Press **Import All** or **Import X Images** for selected images, if no further options are required. (Note you can always add adjustments later, of course, and easily add copyright info and rename files.)

Excluding duplicates

Capture One can determine if a source image or a movie file is a duplicate of another already in the Session. This feature is particularly useful when importing from memory cards that haven't been erased or formatted between use. Previously imported images remaining on the card can now be excluded from the import process, thereby preventing unnecessary duplication. After enabling the feature in the importer dialog window, images are individually scanned in the importer's browser prior to import. Images that match key metadata in the Session database are removed from the importer's browser and excluded from the import.



If you bypass the import dialog and use the drag-and-drop method to import files directly into a Session sub-folder, then Capture One can't recognize potential duplicates. Capture One also can't identify duplicate images when file extensions have been modified. Note that, if the option to pack RAW files as EIP on import is altered frequently (from the application preferences), there is the possibility that images may be duplicated if reimported at a later date. When importing an adjusted image with the settings file (e.g., when copying images from a folder that have already been worked on in Capture One) into a Session and the Include Existing Adjustments option is enabled in the importer, the image is considered a duplicate.

1. Open the import dialog window.
2. In the **Import From** panel, select **Exclude Duplicates**. This option can be left enabled for future use.

Creating an additional folder structure

When you created a new Session you will have already generated a Session folder with a series of sub-folders - Capture, Selects, Output and Trash. However, the importer offers the option to create additional sub-folders, as simple or as complex as your needs dictate.

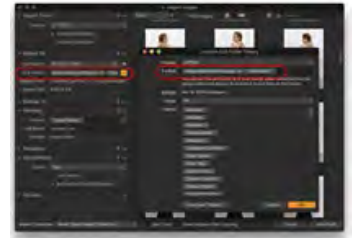
In addition, you can combine this with Capture One's dynamic locations feature. By leveraging Capture One's database access to the image metadata, the importer's Location Sub Folder Tokens enable it to automatically create, organize and name folders of images when downloading.

By adopting just one token, for example the Orientation token, you can use the feature to organize images into portrait and landscape sub-folders of the parent Capture folder. However, you can use the two features together to create and organize images into just about any folder structure. You can also save these folders as user presets and switch between them, as and when you need.

The Location Sub Folder Tokens are also available in the Export dialog, so you can semi-automate the naming and organizing of folders when it is time to share a selection of images.

When the Import To Sub Folder field contains only text or the Import Date token, Capture One will automatically create a Session Favorite in the Library to aid subsequent navigation. If any other tokens are used that may result in files being stored in separate sub-folders, an Album will be created instead.

1. Open the importer and, from the **Source** fly-out menu, select the images to import.
2. In the **Import To** tool, click on the **Destination** fly-out menu and select from one of the following options:
 - o **Capture Folder** - this option is the standard folder to import files to when using Sessions. Select this when you want to further segregate images in this folder.
 - o **Session Folder** - this is the highest folder in the session hierarchy. Choose this option when you want to customize the standard session structure (i.e., using the Sub Folder option below will add another parent folder initially, however hierarchical sub-folders can also be created).
 - o **Selected Folder** - a previously created folder, selected in the Library tool. Choose this option, for example, when importing images into a previously customized session.
 - o **Choose Folder...** - use this option to navigate to a new folder, such as an existing folder hierarchy in an image library, or a folder on an external drive, and click **Set as Import Folder**. Note, recently used folders appear as shortcuts.
3. To verify the folder location, click on the adjacent arrow. A warning icon may be displayed instead if a valid folder has not already been selected in the Library.
4. To create a single sub-folder within the folder selected above, add a descriptive name in the **Sub Folder** text field, then move to step 8.
5. To create and organize images in multiple sub-folders based on metadata, click on the (...) icon next to the Sub Folder text field to open the Location Sub Folder Tokens dialog and select the appropriate tokens available in the list.



- Text and tokens may be used together in the Sub Folder text field or the dialog's Format text box and saved as a user preset. (Click on Save User Preset.... Add a name and select Save.)
- When creating hierarchical sub-folders, add a forward/backward slash (Mac/Windows) without spaces in between each new folder name or token used. Each forward/backward slash adds a sub-folder to the preceding text entry or token.
- When using the Location Sub Folder Tokens dialog, click OK in to accept the naming/folder structure format.
- In the **Sample Path** field, verify the path is pointing to the chosen folder for import.
- Continue with options for backing-up, file-naming, copyright and adjustments, as desired.

Backing up images on import

A simultaneous copy of the imported images can be made from the Backup To tool in the importer. For example, importing images from a memory card can be downloaded (i.e. copied) to the Pictures/My Pictures (Mac/Windows) folder on your laptop, and simultaneously backed up (i.e., copied again) to a connected portable external drive.

Warning! While this is a useful option for a temporary backup, it should not replace your principal backup strategy.

- In the **Backup To** dialog, select the **Backup Enabled** option.
- From the **Location** fly-out menu, choose **Select folder...** and navigate to your chosen location, such as an external drive, ideally, and select either an existing folder or create and name a new folder from the dialog.
- Images will be duplicated to the selected backup folder on import.



Naming images on import

When left to the default setting Capture One will leave the original file names unchanged. However, you can rename the images using text or tokens, or any combination of the two. There is a wide range of naming tokens available, organized by type for easy reference, and there are a number of built-in presets for commonly used naming conventions. You can easily create your own presets as well. For more information on naming and renaming, see File Naming.

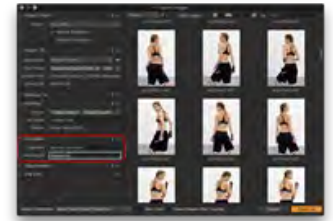
- Go to the **Naming** dialog.
- In the **Format** field, verify previous image naming entries (Capture One adopts the last used, and this may not be relevant now). To maintain the original image file names only, verify that the **Image Name** token is in place.
- To rename images, add text or combination of text and tokens in the Format field. (If you know the token names already, start typing in the Format field to reveal a list and select the relevant name.) Alternatively, click on the adjacent action button (... icon) to choose from the range of tokens. The **Naming** Format dialog window opens.
- Select the desired naming choice by dragging or double-clicking on the tokens in the flat list, or select from the organized Group list, or a built-in combination from the Presets fly-out menu. Any combination of text and tokens can be saved as a user preset.
- When the Job Name token is selected, the **Job Name** field in the Naming tool becomes active. Use this option to add a relevant name, such as a job reference or name, your name, or the company name, for example.
- Click **OK** to accept the changes. The Naming Format dialog closes and adds the chosen combination to the Naming tool's Format field.
- Add relevant text in the Job Name field, see step 5.
- In the **Sample** field, verify that name is in the desired format.
- After pressing Import or Import All, any changes made will be applied to the images as they're imported.



Adding copyright and a description on import

Use the Metadata tool to fill in copyright information and a description or

caption, if desired. The tool remembers data, so adding copyright information doesn't have to be re-entered for each import. You can leave the two fields blank if you're unsure how the images will be used, as both can be added after import.



Adding adjustments on import

You can add image adjustments when importing. Although it is limited to the automatic adjustments found in the main toolbar, you can also apply Styles and Presets which can be extensively customized for your particular workflow. For example, you can use this feature to apply keywords or IPTC metadata, such as copyright and rights usage terms, if they've been saved previously as a User Style or Preset.

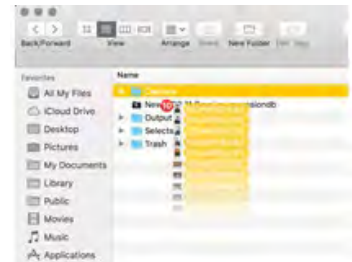


When importing images that have been worked on previously in Capture One, the Include Existing Adjustments option should be selected so that any previously made adjustments and settings can be applied. It can be left permanently selected, just in case.

1. In the **Adjustments** tool, check mark the **Auto Adjust** option to apply on import the automatic adjustments selected from the Toolbar. (Note this option may slow down the import process.)
2. Presets and/or styles can also be applied to images during import. Select the relevant options from the **Styles** fly-out menu.
3. Select the **Include Existing Adjustments** check box if you are importing files that have already been worked on in Capture One. This option imports and applies all adjustments and settings (i.e., ratings, keywords, copyright info., and any other metadata) associated with each image file.
4. Selected adjustments will be applied on import.

Importing quickly

The Library tool in a Session works like a typical file browser enabling you to view images when opening folders, unlike the Library tool in a Catalog, which requires the use of the importer before being able to do so. Therefore, when you want to import images quickly without fuss, simply drag and drop the files into the Session's Capture sub-folder from another Finder or Explorer window. When doing so from a memory card or an external drive, images are copied. When the images are in a local folder, they are moved.



1. Navigate to a folder of images on your system, either local or external such as a memory card. When importing images from a memory card or an external drive, images are copied. When the folder is local, images are moved.
2. Open the folder and select the images.
3. Drag and drop the images into the open Session's **Capture** sub-folder in the Finder or Explorer window. The Session's Browser populates with images.
4. Images are now ready for sorting and editing.

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Organizing Images in Sessions

Discover how to organize images when using Sessions, create templates, and transfer Sessions between disks.

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- Opening a moved Session for the first time
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Working in multiple Sessions simultaneously

Capture One can handle numerous open Sessions at the same time.

1. When one session is open, choose File > Open Session.
2. Browse and open the next session file Sessionname.cosessiondb.
3. It is now possible to drag and drop image files from one Session to another.



Create a Session Template

Making a Template allows you to create a new Session with a predetermined set of Session Albums and Session Favorites instead of starting from the presets. This may be a valuable time saving exercise if you adopt a complex hierarchy of nested Albums. Smart Albums complete with rules (search criteria and active filters) are duplicated from within the open Session.

Note, no images are copied into the Session when creating a Template. Also note, the process of creating a Session Template is similar to that of creating a Catalog Template, but the resultant template files are not interchangeable.

1. Open a Session and navigate to the Library with a set of Session Albums and Session Favorites that you intend to copy. Select **File > Save As Template...** A dialog box will open to save the file.
2. Choose a suitable name for the Template. Select **Save**.
3. From the Library, click on the **+** (plus) with reveal icon next to the switch Session/Catalog field and select **New Session...** Or select **File > New Session...** (Cmd/Ctrl+N). A dialog box will appear.
4. Select an appropriate name for the new Session, select a location for the Session to be saved to (or choose to retain the existing location), nominate the appropriate Session Subfolders as usual, and select the appropriate **Template** from the drop-down menu.
5. Check the box underneath to open the new Session alongside the already open Session, or uncheck to close the existing Session and open the new one.



Move a Session

As the typical Session folder contains everything you need to continue working (i.e., RAW files, settings, profiles, and metadata such as keywords and IPTC information), a Session can be easily moved from one folder to another on the local disk, like any typical system folder.

The self-contained nature of a Session makes it an ideal choice when transferring images from one computer to another, such as between laptop and desktop, and a Session can be moved to an external drive for storage or archiving, freeing up local disk space.



Note when moving a Session, the session sub-folders' paths should be set relative to the session folders, to assure automatic updating of the links. Although the default setting in Capture One is for the paths to be set to relative, if the links are set to absolute you will lose connection to the folders when changing location.

1. Open the Session, navigate to the Library, then Ctrl-click/right-click (Mac/Windows) and select **Show Info** from the menu.
2. Select each Session folder in turn and verify the path's link is set to **Relative to session** in the fly-out located in the info panel.
3. Close the Session to be moved or transferred.
4. Choose from the following two options:
 - o Navigate to the appropriate Session folder in the Finder/Explorer (Mac/Windows) or
 - o Open a second Session, go to the **Library** then under the **System Folders** collection, navigate to the appropriate Session folder.
5. Select the appropriate Session folder (it will enclose the typical Capture Selects, Output and Trash folders plus any other previously created sub-folders), and drag and drop it in the new location.

Opening a moved Session for the first time

Some initial precautions are required when opening a moved Session for the first time. The following description will ensure the correct links are rebuilt between the Session folders and Capture One. The steps also assume the Session database file and sub folders, including the original images files, are enclosed by the Session folder.



It is not recommended to work on a Session residing on a local drive with the RAW files stored on an external drive. Should the drive become accidentally disconnected, the settings could become corrupted. When referencing files this way, you should use a Catalog instead.

1. When opening the moved Session for the first time (i.e., in the new location), navigate to the Session folder using the Finder/Explorer.
2. Open the folder and click on the **cosession.db** file located within. This will open the Session and ensure the correct links are rebuilt.
3. The moved Session is now ready to be used.
4. Before deleting any Session folders located on the local disk, for example to free up space after transferring (i.e., copying) them to an external drive, verify first that all the folders and files are located on the external drive and make back-ups using your typical routine.
5. You can verify the folder locations and contents from the Library. From the **System Folders** collection, navigate to the relevant session folder and then ctrl-click/right-click (Mac/Windows) and select **Show Info** from the menu. The path to the images are displayed in the **Where** info field.
6. You can also select an image from the Session subfolder and then ctrl-click/right-click (Mac/Windows) and select Show in Finder/Explorer (Mac/Windows). If you have the Path Bar enabled in the Finder/Explorer (File > View Show Path Bar) then the path can be confirmed. Alternatively, use third-party software to verify and validate the transfer.

Delete the original Session

Before deleting any Session folders located on the local disk, for example, to free up space after transferring (i.e., copying) them to an external drive, verify

first that all the folders and files are located on the external drive and make copies using your typical back-up routine. You can verify the folder locations and contents from the Library.

Warning! Deleting a typical Session folder will delete the original image files. Before deleting make sure you have copies stored in a safe place, as well as fully functional back-ups.

1. From the **System Folders** collection, navigate to the relevant session folder and then ctrl-click/right-click (Mac/Windows) and select **Show Info** from the menu. The path to the images are displayed in the **Where** info field.
2. You can also select an image from the Session subfolder and then ctrl-click/right-click (Mac/Windows) and select Show in Finder/Explorer (Mac/Windows). If you have the Path Bar enabled in the Finder/Explorer (File > View Show Path Bar) then the path can be confirmed. Alternatively, use third-party software to verify and validate the transfer.
3. Once confirmed, drag the original Session Folder to the Trash. **Warning!** Deleting a typical Session folder will delete the original image files.



Move a Session

At some point in time, you will need to archive the images from a Session. There are several workflows for this, but if you need to refer to the images and make adjustments, it is recommended to import the Session into a Catalog and continue working from the Catalog instead. The original Session will remain untouched, but the Catalog will require access to those images for certain adjustments, or when processing image files for output.

Like a typical Catalog, the source images in the original Session will be referenced and any new adjustments will be held in the Catalog's database. Please see the section [Importing a Session into a Catalog](#) for more information.

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Working with Networks

Whether you're an individual with one or two computers or you're part of an organization or group, Capture One is network compatible and capable of handling access from multiple computers.

- [Access images stored on a network](#)

Access images stored on a network

Sessions generate and store cache and settings within a sub-folder of the source images' folder, so when browsing using the Session Library there's no need to import images to view them. This property makes Sessions well-suited to users accessing images on a network or NAS on an occasional basis, and is the recommended workflow for Sessions. However, while adjustments are easy to make and view between users, simultaneous access to the same files is still restricted, and browsing the system folder structure using the Library is a niche workflow that limits the more typical Session management features. For example, while you can organize images using albums, it is easier to keep track using a Catalog.

If you're using a Session database file located on the network drive to organize images, then access is limited to one user at a time. As in a typical Session, unless using albums, organizing images residing there in the Sessions Folders or Favorites will move them. Note that, if you've stored the Session database file locally, ensure the existing Session Folders and Favorites, as well as a new ones, are located on the NAS, otherwise images will be copied to the local computer.

1. Create either a substitute Session specifically for this workflow, or open any existing Session on your local computer.
2. Connect to your network drive.
3. From the Library tool go to the System Folders collection and click-on the arrow beside your network drive to reveal the image folders.
4. Click-on a folder to select it. Images in the folder will be displayed in the Browser, or click on the arrow beside the folder to reveal sub-folders and click on the sub-folder to reveal the images.
5. Select an image to make adjustments as usual.

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Updating Sessions

Sessions produced by earlier versions must be updated, if they're to take advantage of the latest version of Capture One.

- Overview
- Upgrading an earlier Session
- Verifying and repairing a Session

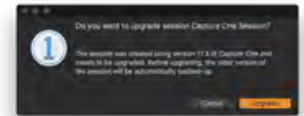
Overview

If you're upgrading from an earlier full release of Capture One, such as version 11 to version 12, you will need to upgrade any Session created with an earlier version if you want to work in it with the new version. Upgrading only updates the database, allowing you take advantage of any improvements made. Image variants remain unaltered as the previous settings and adjustments are managed by the version process engine and a Capture One Session can maintain several.

Upgrading an earlier Session

Although Sessions don't have quite the same dependence on database functionality as Catalogs, they also require updating or "migrating" or when used with the latest full release of Capture One (e.g., from version 11 to 12). Upgrading of Sessions is not required between dot releases (e.g., 11.0 to 11.1).

1. Choose from one of the following to open an earlier version of a document:
 - o From the main menu, choose **File > Open...**, and navigate to the relevant document (i.e., with the .cosession extension) and double click on the file.
 - o From the main menu, choose **File > Open Recent...** and select the relevant session or document from the list. Note this menu shows only recently opened documents, and may have been cleared.
 - o From the Finder (macOS), or using Explorer (Windows), navigate to the relevant document (i.e., with the .cosession extension) and double click on the file.
2. Opening the document will display a warning dialog to **Upgrade**, or **Cancel**. Note, only the database is upgraded, the variants are NOT altered and the previous settings and adjustments are preserved from the earlier version of Capture One.
3. Click on **Upgrade**.

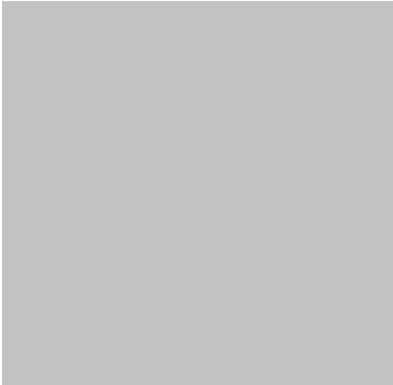


Verifying and repairing a Session

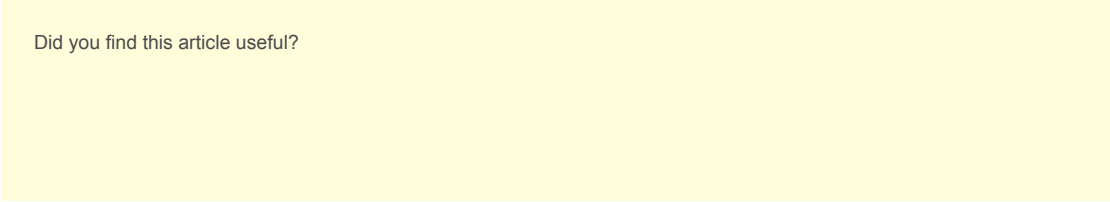
Although a Session doesn't have the same extensive database of a Catalog, it still makes sense to run diagnostic checks occasionally on Sessions that may be used frequently. The operation looks for errors and repairs damage that might otherwise lead to eventual corruption of the database.

1. From the open Session, select File > Verify Catalog or Session. A Finder/Explorer window opens.
2. Navigate to the relevant Session ([name].cosessiondb) and click **Open**. If you attempt to verify the same, open document, and warning dialog will open prompting you to close it before verifying.
3. A Verify Session dialog opens displaying a progress bar initially, then a path to the database, and a list of the checks. The verified document is not automatically re-opened.
4. Select **Open** to re-launch the current Session, select **Verify** to repeat the process on the current Session, or Close to dismiss the dialog (in order to open another document or to cancel and quit the program).

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Albums, to filter related images. Session Favorites are just like file-system folders, and are often used to create sub-folders of one or two of the four Session sub-folders. Organizing images in Favorites, physically moves the images just like it does with any system folder.



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Library

IMPORT / IMPORTING IMAGES

The Library Tool enables you to access files located on your local computer or on external drives and networks. The Library Tool is a filtered file explorer that displays Catalogs, Sessions, albums, projects, groups, folders and supported files.

The Library tool tab in Capture One is where all file navigation and organization takes place. Navigate via the hierarchical tree-view to a folder that contains the image files you wish to edit. Thumbnails of the images within your selected folder will be created and displayed in the [Image Browser](#). You can also watch videos supported by your particular OS. [Find out more here.](#)

Capture One applies non-destructive editing because any image adjustments will not affect the actual RAW file – only the Capture One settings file will change. Create a catalog or [session](#) to help organize your workflow.

Folders and Collections

Whether you're working in a Session or Catalog, Capture One uses a combination of folders and virtual folders to store and organize your images.

Albums and Folders

Use albums and Selects Folder as a key organizing element in a Capture One Session or Catalog.

Smart Albums

A Smart Album is a filtered album containing a subset image collection. Discover the benefits.

Search and Filters

There are numerous ways to search an image collection to help you find, sort and organize images.

Rate and Color Tag Images

Use ratings and color tags to help organize and locate images.



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Folders and Collections

Whether you're working in a Session or Catalog, Capture One uses a combination of folders and virtual folders to store and organize your images.

- [Library overview](#)
- [Folders in Catalogs](#)
- [Folders in Sessions](#)

Library overview

A Catalog has more options for organizing images using virtual folders (Projects, Groups and Albums), and while it is essential with one master or several large Catalogs, there are still many benefits for using them with smaller project-oriented Catalogs or Sessions. Regardless of which management option you're using, the Library inspector is where all file navigation and organization takes place.

Folders in Catalogs

Although a Catalog can reference images scattered all over the system, Capture One typically stores your image files in folders. Regardless of the source, images must be imported into a Catalog before they can be viewed and the folders are always listed in the Library's Folder panel afterwards.

With existing image libraries, where you have folders of images that don't require moving, the action of importing in a Catalog simply allows the database file to reference the source files in their existing location and generate the previews so they can be displayed and found later. Once referenced, the image folders will also be in the Library's Folder panel alongside any that were imported from your camera. This enables you to maintain and continue with any existing folder structure, where you can move folders and move images between them.

Images will also be organized in dated albums, or 'virtual' folders, in the Catalog Collection panel as Recent Imports. From the User Collections you can further leverage the Catalog's database function to organize related images using customizable Projects, Groups and Albums without physically moving them from their existing location.

Folders in Sessions

Sessions work slightly differently in that, like a typical browser, the System Folders panel of the Library displays all your system level folders, and generates its own image cache, so you'll see the contents of the folder in the Capture One Browser without importing them.

Images from cameras or external media are imported into the Session folders. The four default Session sub-folders (Capture, Selects, Output and Trash) are displayed in the Library's Session Folders panel and, as a Session can access the filesystem, those same system folders can be found in the System Folders panel. (Select the Capture Folder, ctrl/right click an select Show in Library.)

Everyone uses Capture One differently, but in most typical workflows, images are organized from the Session Folders panel using virtual folders, Session





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Albums and Folders

FOLDERS / SMART ALBUM / RATING / FILTERS / METADATA

Use albums and Selects Folder as a key organizing element in a Capture One Session or Catalog.

Albums

Album folders are virtual image collections. There are three primary ways to create a new Album:

1. Go to File > New Collection > New Album.
2. in Library Tool, right-click and select New > New Album
3. Go to the User tab in the Library Tool. Press the + icon and select New Album.

Add images to an album

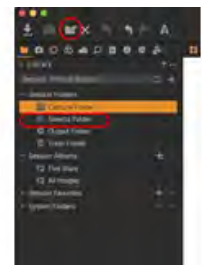
A straightforward way to add images to a folder is to drag and drop (selected) thumbnails from the [Browser](#). Images can also be dragged from a Capture One folder to a file system folder and vice versa, if the operating system supports this action. You cannot drag images or groups of images into a Smart Album; only into a simple or favorite folder.



Selects folder

The Selects Folder (previously known as the Move-To folder) is automatically created when a new session is started. It is designed to enable users to quickly and easily move image files.

1. Once an image is selected, press the "Move to Selects" icon on the toolbar and the location of the file will change to the Selects Folder.
2. To quickly move an image to the Selects Folder, right click on a thumbnail in the browser and select **Move to Selects Folder**. Alternatively, use keyboard shortcut **Cmd+J/Ctrl+J** (Mac/Windows).



Selects collection

It is possible to assign any folder to make it a Selects Collection when you want to quickly transfer images from one folder to another. The Selects Collection function can come in particularly useful when you want to edit and move your best images into a different folder whilst browsing through multiple image collections.

When you don't want to physically move the images, then create an Album or an Album within a Project or Group and nominate the Album as a Selects Collection instead.

1. Create and name a new Catalog.
2. Right click and select **Set as Selects Collection** to assign a folder, or album.



3. Now browse image collections and click the Selects Folder icon (located in the top left tool bar) whenever you find an image that you want to add to the new folder, or album.

Learn more

Catalog functionality includes a Folders tool and numerous ways to organize your image collections. Find more about Catalogs and the following subject matter:

- [Folders tool in a Catalog](#)
- [Create an Album and Group in a Catalog](#)
- [Virtual Organization within a Catalog](#)

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Smart Albums

SMART ALBUM / FOLDERS / FILTERS / METADATA / BATCH RENAME / LIBRARY

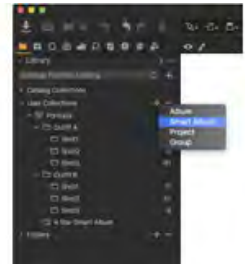
A Smart Album is a filtered album containing a subset image collection. Discover the benefits.

- Introduction
- Create a smart album
- Create a smart album from filtered collection with multiple criteria
- Edit a smart album
- Can I use a smart album in a catalog?

Introduction

A Smart Album is a virtual album for your images that's based certain search criteria with a set of conditional rules. Not only is the album automatically updated when the rules are met, but also when the rules no longer meet the criteria. This will help narrow down a collection of images for a smaller subset to work on and thereby accelerate your workflow. For example, you can use a Smart Album to filter images in a collection that have been rated with three or more stars for retouching.

Smart Albums can be used with a Catalog or Session folders (i.e. Session Folders, Session Albums and Session Favorites folders).



Create a smart album

1. Select File > New Collection > New Smart Album.
2. Name the Smart Album and add the filter criteria. If no filter criteria are selected, then the Smart Album will include all the images in the catalog or session folders (albums and favorite folders).
3. To populate the Smart Album with images, select one of the presets available for ratings and color tags, or see below for more advanced filter options.



Create a smart album from filtered collection with multiple criteria

1. Click the area (with three dots) on the right side of the search field. (This area is sometimes highlighted in orange). A Search Collection dialog box will appear.
2. Add custom fields by clicking on the + icon. Choose criteria from the drop down menus.
3. Any customized filter can be saved as a Smart Album by clicking **Create Smart Album** option at bottom of the dialog box
4. This Smart Album will now be located in the Library Tool with a default name. Give the Smart Album a name.



Edit a smart album

1. Right click on a selected Smart Album in the Library Tool and select **Edit Smart Album...** The Filter Collection dialog box will open and display the criteria that were created earlier.
2. Change one or more criteria. Add more criteria by clicking on the + icon.

3. Press OK. The Smart Album is now updated and will only contain images that match the filter settings.



Can I use a smart album in a catalog?

Yes. Album folders are virtual collections that offer an easy way to organize images from different folders, without having to create duplicate images in the same folder. Smart Albums are populated automatically by images that match the album's criteria. Capture One comes with a selection of Smart Albums that are already set up in the library. You can also create your own Smart Albums.

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Search and Filters

FILTERS / SMART ALBUM / METADATA

There are numerous ways to search an image collection to help you find, sort and organize images.

Users can apply a simple text filter or use the Filters Tool to quickly locate image files that have a colour tag or star rating. Filtered images (in a Catalog, actual folder, Session, album, and Smart Album etc.) are displayed in the [Browser](#).

- Filters tool
- Adding more filters
- Refining searches by combining criteria
- Searching by text
- Searching by orientation
- Saving search results

Filters tool

The [Library Tool Tab](#) has a Filters tool that is useful for global image searches or grouping of images. There are a number of ways to use the different filters:

Filter by Star rating and/or Color tag

Ensure that you have applied [color tags](#) and [star ratings](#) to an image collection.

1. Go to the Filters tool in the [Library Tool Tab](#).
2. Notice that there are numeric indicators that let users see how many images have, for example, a 5-star rating and/or a color tag. (The number next to the relevant color or star in the Filters tool tab represents how many images fulfill that criterion).
3. Click on the number (that is adjacent to the star rating/color tag) to filter all the images with those particular criteria so that they appear in the browser. (The active filter will have an orange dot next to the number).
4. In this example all images that have a 5-Star rating have been filtered. Click on the orange dot to deactivate the search.

Follow this procedure to filter images by other criteria such as Keyword, Place and Format. (Find out how to add more search criteria [below](#)).



Adding more filters

Add more metadata filter groups or filters to the Filters tool tab to help you widen your image search.

1. Go to the Filters tool in the [Library Tool Tab](#).
2. Click the action menu icon (three dots) at the top of the Filters tool.
3. Select **Show/Hide Filters...** The Metadata Filter dialog will appear.
4. Check-mark the individual filters or filter groups that you want to add to the Filters tool.



Refining searches by combining criteria

The Filters tool is simple yet very powerful and although it is not quite as flexible as using the Advanced Search tool with which it integrates, it can still be used to search for images using a wide range of criteria. You can search by color tag and rating, date, keyword, file format, and both IPTC and EXIF information or any combination thereof, including multiple entries.

When combining search criteria from different filter groups to locate an image, selecting the Results Match All Criteria will filter those images that satisfy only that specific combination. For example, when searching by a date and single keyword, only those images that specifically include both will be displayed. Disabling that option and searching for both will result in images being displayed that include either the date or the keyword, resulting in potentially many more images being found which may still be useful.

Note that when using two or more filters from the same group, the images found will always include either one or the other, not the combination of one *and* another.

The option is enabled by default, however to verify or change the behavior of the Filters tool, adopt the following procedure:

1. In the Library inspector, go to the **Filters** tool and click on the action menu (...) icon in the tool's title bar. A menu is displayed.
2. Click on the **Results Match All Criteria** to enable or disable the option. A check-mark in front of the option shows that it's enabled.
3. Continue with the search using the Filters tool.



Searching by text

In addition to the criteria used for searching listed above you can also search by any text that you've used to associate with an image, including IPTC information, keyword, file name, and even the folder name. For the named folder to be included in the search when using a Catalog, the folder must contain images that have been referenced by that Catalog.

1. From the Library tool, select a Collection or group of images that you want to search or filter. When searching an entire Catalog, select All Images under Catalog Collections.
2. Insert text into the search field at the top of the Browser or in the Filters tool. (These search fields are circled in the example image).
3. The results will change in the browser as you type. Adding multiple words will produce a search with resulting images that contain one or all of the inserted search terms. E.g. Inserting "blue red phase" will produce resulting images that contain either blue or red, or phase in any metadata field or in the filename.



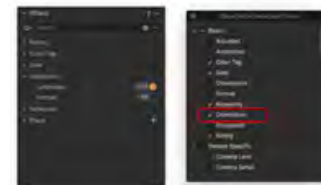
Searching by orientation

You can search for images by their orientation, providing of course adjustment was made previously, (i.e., either in-camera at the time of capture or afterwards in Capture One).

Besides the expected portrait and landscape orientations, search criteria also includes square (1x1) images. Note that the filter takes into account any cropping applied in Capture One. Therefore, if a landscape-type crop is made of a portrait-oriented image it will be classed as a landscape-oriented image for the purpose of the search.

The Orientation filter option is available from the Filters tool, and from the Advanced Search dialog.

1. From the Library tool, select a Collection or group of images that you want to search. When searching an entire Catalog, select **All Images** under Catalog Collections.
2. Go to the Filters tool, and click on the action menu button (...) in the title bar. The action menu opens.



3. Select **Show/Hide Filters** from the list. The **Show/Hide Metadata Filters** dialog opens.
4. Select **Orientation** from the list by adding a checkmark to the box in-front. (Optional. Close the dialog, by clicking on the X-icon in the dialog's title bar.)
5. The Orientation folder is added to the Filters tool along with up to three radio buttons (Landscape, Portrait, and Square), depending on the type found within the selected Collection.
6. Click-on the button apropos the search criteria. All images that match the criteria will be displayed in the browser.

Saving search results

When you filter an image collection using the Advanced Search dialog, the result can be saved as either a Smart Album or Album. An image collection can be searched by a wide range of criteria, such as color tag and rating, date, display name, keyword, file format, and both IPTC and EXIF information or any combination of those filters. When you create a Smart Album based on the search criteria, any new images added afterwards to the Collection that match that criteria will be automatically added to the Smart Album.

1. From the Library tool, select a Collection or group of images that you want to search. When searching an entire Catalog, select **All Images** under Catalog Collections.
2. Go to the Filters tool or Browser tool bar, click the action menu button (...) on the right side of the **Search** field. (This icon is highlighted in orange when active). The Advanced Search dialog box will open.
3. Add or remove custom fields by clicking on the +/- icon. Choose criteria from the drop-down menus.
4. Any customized filter or filter group can be saved as a Smart Album or Album by clicking on the **Create Smart Album** or **Create Album with Current Images** options at the bottom of the dialog.



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Rate and Color Tag Images

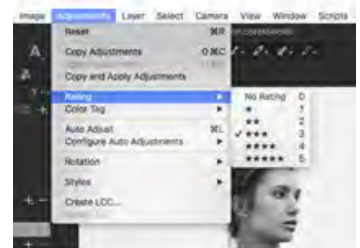
RATING / SMART ALBUM / FILTERS / METADATA

Use ratings and color tags to help organize and locate images.

Ratings and tags can be altered throughout the editing process. There are several ways to apply ratings and tags to help filter your image collection and make searching for files quick and easy. You can combine a star rating with a color tag or use one exclusively.

Add star ratings from your keyboard

1. Select a thumbnail in the **Browser**.
2. Press numbers 1 to 5 on your keyboard to select a desired star rating.
3. To remove a star rating, press 0 (zero).



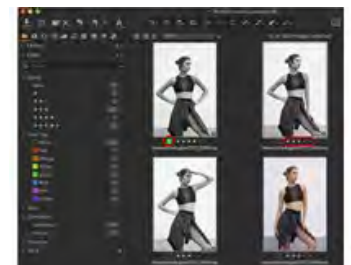
Add star ratings and color tags in the viewer

1. Color tags and star ratings can be selected in the bottom right corner of the **Viewer**.
2. Click on the box icon to select a desired color tag.
3. Press on a dot to star rate an image from 1 to 5.
4. To remove a star rating, press 0 (zero).



Add star ratings and color tags from the browser

1. Select a thumbnail in the **Browser**. (The thumbnails should be displayed in either the **grid** or **filmstrip** view).
2. Go to the ratings bar at the bottom of the thumbnail and click on the box icon to select a desired color tag or a dot to star rate an image from 1 to 5.
3. Alternatively, right-click on the image in the **Browser** and select **Rating >** or **Color Tag >** and apply the desired rating.
4. You can also select the **list** view. Then go to the Rating and Color columns to select a desired tag or star number.
5. To remove a star rating, press 0 (zero).



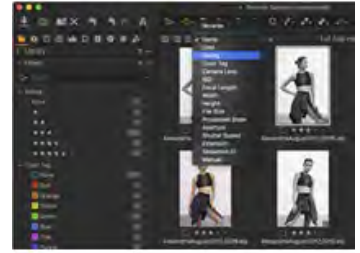
Add star ratings and color tags in the filters tool

1. Select **one or more** thumbnails in the **Browser**.
2. Drag and drop the thumbnail(s) on to the desired star rating or color tag in the **Filters** tool.
3. To remove a star rating, press 0 (zero).



Sort images using star ratings or color tags

1. Go to **Sort** field at the top of the **Browser** and select **Rating** or **Color Tag** from the drop down menu.
2. Alternatively, go to the **Filters tool** (in the Library tool) and click on the desired number in color tag and rating tabs.
3. All images that match the selected rating or tag criteria will be displayed in the Browser.



Learn more

- Star Ratings and Color Tags are embedded into the metadata of an image. Go to the [Metadata Tool Tab](#) to view and alter a rating or tag.
- It is also possible to add Star Ratings and Color Tags via the [Capture Pilot app on the iPad](#).
- Right click on a thumbnail or on the image in the Viewer and select a desired rating or tag from the menu.
- Thumbnails (in Grid and Filmstrip View) have three display and edit options. Go to View > Customize Browser > Labels > and select one of the three options:

Off - Star ratings and color tags disappear from view and are not editable from the thumbnail.

Edit mode – Star ratings and color tags can be viewed and editable from the thumbnail.

Status mode – Star ratings and color tags can be viewed but not edited from the thumbnail.

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File Naming

FILE NAMING / IMPORTING IMAGES / OUTPUT NAMING / BATCH RENAME

Capture One offers extensive file naming and renaming options, including the use of dedicated tokens for dynamically created file names and folder generation based on the libraries within Catalogs and Sessions and certain image metadata. You can also create customized filename options and presets depending on your particular needs.

- [Adopting tokens in naming dialogs](#)
- [Dynamically naming folders and files](#)
- [Name files when capturing](#)
- [Name files when importing images](#)
- [Name output files when processing images](#)
- [Change output naming settings](#)
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Adopting tokens in naming dialogs

In addition to adding text in the usual way in the naming dialogs, many of Capture One's text-based tools such as the Naming and Destination/Location (and Keyword) tools feature dialogs where you'll find tokens. These gray-colored, tablet-like elements create text from the image file's metadata. In some cases the tokens can access other data within the individual Session or Catalog such as the Document name itself or its Collection name.

For example, if you add the Image Date (MMM dd yyyy) token, Capture One will take the capture date from the images' metadata. If it is used to rename image files, it will replace the original file name with the chosen date format (e.g., Jun 14 2018). You can type custom text between the tokens and use the keyboard's underscore key () to separate multiple tokens and custom text from becoming a continuous name.

When the same token is used in the Location Sub Folder field it works in a similar way, but it doesn't just create and name a folder in the same format, it will also populate those folders with the relevant images.

Dynamically naming folders and files

The real power of the Location Sub Folder option is revealed when multiple tokens are used with a forward/backslash (macOS/Windows) delimiter between them. Then Capture One will automatically create and organize the images in a series of hierarchical folders, with each one being named dynamically from the metadata.

For example, when the three separate Image Year (yyyy), Image Month (MMM), and Image Day of Month (dd) tokens are used together a similar naming format will be built. However, when the delimiter is applied between them, top-level folder is created for the year, with sub-folders for the months, each created dynamically based on the metadata in the images. Inside that folder sub-folders will be built for each day, and Capture One will also populate those folders with the relevant images.

When you combine naming and location tokens (and custom text) in their respective tool dialogs, Capture will organize and rename files and folders based on the criteria specified, enabling you to automate some of the most repetitive routines.

If you already adopt the popular date folder hierarchy in the example above or have something similar, think how you can customize the Location Sub Folder to mimic it and Capture One will integrate the creation of the new folders without overwriting the existing ones.

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Name files when capturing

1. In the **Next Capture Naming** tool click the button next to the Format text box to get the token name dialog box.
2. Select the desired naming choice in the **Presets** dropdown menu. Alternatively, create a new naming format by dragging tokens and/or adding custom text to the Format text box.
3. Click the downward arrow on **Tokens** to access and select more options.
4. Click OK to accept the changes.
5. Verify that the sample below the Format text box is the desired format.



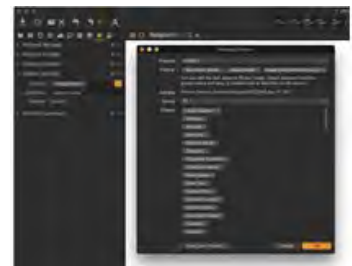
Name files when importing images

1. Select File>Import Images... from the menu or click the Import icon.
2. In the **Naming** tool click the button next to the Format text box to get the Naming dialog box.
3. Select the desired naming choice in the **Presets** drop down menu. Alternatively, create a new naming format by dragging tokens and/or adding custom text to the Format text box.
4. Click the downward arrow on **Tokens** to access and select more options.
5. After choosing the desired token, drag and drop the token into the format line.
6. Click OK to accept the changes.
7. Verify that the sample below the Format text box is the desired format.



Name output files when processing images

1. Go to the **Output Naming** tool (in the Output Tool Tab) and click the button next to the Format text box. A Naming Format dialog box will appear.
2. Select the desired naming choice in the **Presets** drop down menu. Alternatively, create a new naming format by dragging tokens and/or adding custom text to the Format text box.
3. Click the downward arrow on **Tokens** to access and select more options.
4. Click OK to accept any changes.
5. Verify that the sample below the Format text box is the desired format.



Note: To add a Job Name, add text in the field and add the Job Name token to the Format field. Adding a Sub Name token adds a suffix to the file name from the Process Recipe tool.

Change output naming settings

1. Go to **Output Naming** tool in the Output Tool Tab.
2. To remove unwanted Tokens, click on them in the **Format** text field and press backspace/delete (Mac/Windows). Alternatively, open the Naming Format dialog, by clicking on the Format action icon (...) and delete them from there.
3. Drag and drop new Tokens into the desired order in the Format field of either of the two naming dialogs. Note, some Tokens provide a drop down menu with more options.
4. Press **OK** to accept the changes.



Create custom naming presets

1. Create a custom format by dragging tokens and/or adding custom text to the Format text box in the Naming dialog box.
2. Select **Save Use Preset...** in the Presets drop down menu or at the bottom of the Naming Format dialog box.
3. Name the Custom Preset and click OK.



Rename multiple files (Batch Rename) ^{Pro}

1. Select Multiple (thumbnail) images in the Browser.
2. Choose **Image > Batch Rename Images...** or ctrl-click (Mac) / right-click (PC) and select Batch Rename... to open the Batch Renaming tool.
3. **Text and Tokens** is selected by default under the renaming **Method** option, however, certain image files can be singled out from large batches and renamed using the **Find and Replace** option (see below for details).
4. Click the [...] button next to the Format text box to get the **Naming Format** dialog box.
5. Select the desired naming choice in the **Presets** drop down menu. Alternatively, create a new naming format by dragging tokens and/or adding custom text to the Format text box.
6. Click the downward arrow on **Tokens** to access and select more options.
7. Click OK to accept the changes.
8. Verify that the sample below the Format text box is the desired format.
9. Click Rename to start renaming all the selected images.



Rename multiple files using Find and Replace

Multiple image files can be singled out from large batches and renamed using the **Find and Replace** option. This option can be used very effectively to rename part of the file name.

1. Select a group of images in the Browser that you want to search within.
2. Choose **Image > Batch Rename Images...** or right click and select Batch Rename... to open the Batch Renaming tool.
3. From the **Method** text box, select **Find and Replace** from the drop-down menu.
4. From the **Find** text box, type the file name to be searched for and then rename the file(s) in the **Replace** text box.
5. Be sure to verify the proposed renaming format in the **Sample** field.
6. Click the **Rename** button to accept the changes and start the renaming.



Controlling the counter

You can control the counter separately for capture naming, image import naming, output naming and batch renaming. This is done from the main menu or, alternatively, by clicking on the action [...] menu in the used tool.

In this example, we will change the counter for the **Rename Counter**, but the same applies for the **Capture Counter**, **Import Counter**, **Output Counter** and **Export Counter**:

Select **File > Rename Counter > Reset Counter** to reset to counter back to zero.

Select **File > Rename Counter > Set Counter...** set the starting number.

Select **File > Rename Counter > Set Increment** to control the increment of the Counter.



Renaming file extensions (macOS only)

When using the Rename or Batch Renaming options Capture One doesn't typically allow the renaming of the file extension. There's no real need and doing so may corrupt the file. However, Phase One digital back file formats include a .TIF (RAW) file extension that's interchangeable with the more typical .IIQ RAW file extension. If you want to update one to the other, you must first enable the option in the batch Renaming tool's action menu, and then add the text in the Format field. Although intended for batches, the tool will rename single files.

Warning! Please make sure you have a file backup available before proceeding. Do not use with other extensions in case of file corruption and data loss.

1. Select the image or images in the Browser with the .TIF/.IIQ file extension.
2. From the main menu select **Image > Batch Rename Images...** Alternatively, ctrl/right-click, from the contextual menu, select Batch Rename. The Batch Renaming tool opens.
3. Click on the Action menu button (... icon) in the tool's title bar. The Action menu opens.
4. Select **Include File Extension** to enable with a check mark.

5. From the **Method** field choose the appropriate option for the renaming task (i.e., Text and Tokens or Find and Replace).
6. In the resultant **Format** or **Find** and **Replace** fields, add text and/or tokens as appropriate and type .TIF/.IIQ file extension without a space between.
7. Select **Rename**. The selected image's file names and extensions will be renamed.

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Creating Copies of an Image

VARIANTS / COPY AND APPLY / THUMBNAILS

Each time you copy an image you create another variant. Capture One keeps all of the variants of an image together in groups, so that you can always view and work on them together at anytime.

- Creating copies of variants
- Creating a copy of the original image
- Creating a copy of the selected image
- An overview of variant groups
- Opening and closing variant groups
- Creating multiple copies of variant groups

Creating copies of variants

Although Capture One creates a variant of the source image to display on-screen and save adjustments to, there are times when you want to create copies of that variant. For example, you may want a single copy of the original image variant to apply adjustments to so that you can compare them, or you may want to create multiple copies with incremental color adjustments or with different output sizes. Whatever the reason, when you copy an image in the browser, Capture One creates another variant of that image.



Capture One has two options for creating copies of variants. When using the New Variant command, a copy of the original image variant will be created using Capture One's default settings, regardless of any applied adjustments. By contrast, the Clone Variant option will create an exact copy of the selected image variant, with or without any applied adjustments. Typically, you would choose this option to apply incremental adjustments.

It is important to note, you have not duplicated the source image (i.e., RAW, JPEG, TIFF, PNG, DNG or PSD file). Both new and cloned variants are based on the same source image, just with their own settings or adjustments applied. This means they are a fraction of the file size of the source image and therefore numerous copies can be made without taking a lot of disk space.

To signify this idea of one file with multiple copies in the UI, all related thumbnails are numbered and represented in the browser with one filename bar.

Creating a copy of the original image

This option creates a new variant of the source image with the default settings applied. You can use this option when you want to create a copy before applying any adjustments. It is also useful when you've made a series of adjustments without keeping a copy of the original variant; it lets you keep the adjusted variant and allows you to start over on a copy of the original.



1. Select the image that you want to create a copy of with the default settings applied. (This can be an image with adjustments already applied.)
2. From the menu, select Image > New Variant (or press F2/F7 (Mac/Windows)). Alternatively, right click, and select **New Variant**.
3. A single copy of the image **without** any adjustments is made (i.e. a new variant with the default settings is created).
4. The new variant is added automatically to a variant group, and numbered with a position (displayed in the browser).

Creating a copy of the selected image

Making a duplicate or clone of a variant simply copies the selected image variant to make another. It is useful when you've made a number of adjustments and you want to keep that variant and try some incremental changes. If an original image variant is cloned, then the result is the same as using the create New Variant command. There is practically no limit to the number of copies that can be made.

1. Select the image variant you want to copy (typically this will be an image with adjustments applied).
2. From the menu, select Image > Clone Variant (or press F3/F8 (Mac/Windows)). Alternatively, right click, select **Clone Variant**.
3. A single copy of the selected image is made.
4. The copy is added automatically to a variant group, and numbered with a position (displayed in the browser).



An overview of variant groups

When you have created multiple variants from one image, either by making a copy of the original without adjustments applied (i.e., a New Variant) or a copy with adjustments (i.e., Clone Variant), Capture One always keeps the related image variants together in a variant group.

When selecting one of those image variants, for example, to form part of an album, all of those in that group are also selected. In addition, when working on an image from a variant group, that image will be updated in every album and favorite that the variant group appears in. And, when a variant is added to that variant group, that newly created variant will also instantly appear in each album or favorite.

Every time a variant is added to the group, the file name is shared and a number showing its position appears in the top right of the thumbnail in the Browser. The file name is also appended with the number in the Viewer. To save space, the variant group can be collapsed and the variant that's displayed representing the variant group at position one is called the pick.

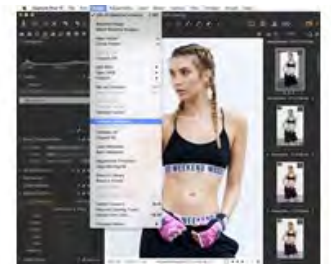
All references to a position are made in relation to the pick, but it is NOT to be confused with the primary variant. You can reorder, promote or demote images in a variant group as necessary by dragging, or by selecting Promote/Demote Variant from the menu. That order will also be reflected in every album or favorite. There is an exception to that rule, however. When one of the variants to be reordered is already selected in another album, then that particular variant group will not be updated with the new position.



Opening and closing variant groups

Variant groups can be collapsed, or closed, to save space in the browser. When a variant group is closed, only the pick is visible. When a variant group is open, all of the image variants related to that group are displayed in the browser and you can select any of the individual image variants to display in the viewer.

1. To open/close the variant group, click on the group button located at the top left of the pick's thumbnail (numbered as position 1), or select the pick and from the main menu select, Image>Expand/Collapse.
2. To open/close all the variant groups in a collection, from the main menu select Image>Expand All/Collapse All.



Creating multiple copies of variant groups

With the clone variant option, it is easy to create multiple copies of one image with different adjustments applied, to make what's called a variant group. Capture One allows the associated adjustments and settings of that group to be applied to other individual images to create cloned groups.

For example, if you have created a variant group consisting of the original image variant along with a total of six clones, four depicting incremental



changes and including a couple of B&W (mono) options, the adjustments of all six cloned variants can be copied in turn to create another variant group from the next capture.

1. Select and copy the adjustments starting with the first adjusted variant in the group, then from the menu select Adjustments > Copy Adjustments, or click on the Copy Adjustments button (upwards slanting icon in the toolbar).
2. Start a new selection and select the images in the browser that you want to apply the adjustments to (when returning from step 6, select the same images. Note there is no need to select the same position in the group).
3. Make sure the Image > Edit All Selected Variants option is enabled (also visible as a button/icon in the toolbar).
4. From the menu, select Image > New Variant, or press F2/F7 (Mac/Windows). This will create a new variant for each the images you have selected.
5. Select Adjustments > Apply Adjustments, or click on the Apply Adjustments button (downwards slanting arrow icon in the toolbar) to apply the adjustments to the selections.
6. Return to step 1 and repeat until all variants in the variant group have been copied.

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Sequences (Phase One XF system camera only)

SEQUENCES / DYNAMIC LOCATIONS / METADATA

This section covers the new Sequences feature for the Phase One XF system camera and how you can use it to automatically name files and create sub folders, search and group images together from a number of related photos.

- An overview of sequences
- Tokens and dynamic locations
- Metadata
- Creating sequence sub-folders on import
- Naming a sequence on import
- Naming a sequence when tethered
- Batch renaming using sequences
- Searching for sequences
- Selecting sequences
- Creating an album from a sequence
- Creating sequence sub-folders on export
- Naming images on export using sequences
- Exporting sequences to Helicon Focus®
- Process RAW files and export to Helicon Focus
- Using Helicon Focus® on processed variants
- Export JPEG/TIFF files to Helicon Focus

An overview of sequences

A Sequence is a series of related photos captured using certain features available on the Phase One XF series camera. The Hyperfocal Distance tool and the new Time Lapse, High Dynamic Range (HDR) and Focus Stacking functions introduced with Feature Update #2 all create Sequences automatically.

After you've captured a series of images or Sequence using one or more of the new tools, you'll almost certainly want to view the photos together and customize your workflow around them. Sequences allow you to do that and more.

When you import images from a CompactFlash card or directly with a tethered Phase One XF series camera, Capture One can identify those Sequences by the metadata recorded by the camera at the time of capture. The camera tags the RAW files with the following properties:

- **Sequence ID:** Unique identifier (i.e., IQ back serial number and initial frame number of each sequence).
- **Sequence Type:** Tool in use (e.g Hyperfocal, HDR, Focus, Time lapse).
- **Sequence Count:** frame count shown as position (e.g., position 3 (of 7)).
- **Sequence Total:** frame count shown as total (e.g sequences comprising of 7 images).

Capture One can use this data in a number of ways:

Tokens and dynamic locations

When importing from a CompactFlash card, or when using the XF camera



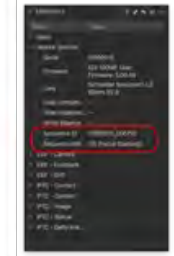
tethered, Capture One can automatically name photos and folders using the Sequence properties. You can use one just one property or any combination of the four in the naming of Sequences. The same tokens can be used for batch re-naming, or for naming on export. As part of Capture One's Dynamic Locations feature, they can be used to automatically create named sub-folders for each Sequence, either on import, export or both.



After import, photos will appear in the Browser in order of capture. To differentiate a Sequence from other non-sequence captured photos, a multi-frame icon is displayed in the lower left corner of each image in the Filmstrip and Grid views. In the List view, the Browser shows the **Sequence ID** in order of capture.

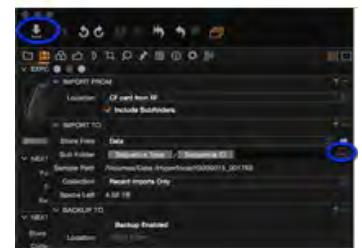
Metadata

When an image is selected, the sequence count, total type and ID can be determined from the Vendor Specific drop-down section of the Metadata tab under **Sequence ID** and **Sequence Info**. When using the HyperFocal AF mode on a tethered Phase One XF camera system, the HyperFocal MCU value is recorded during capture and is displayed in the **Description** field under the **IPTC - Content** section. After checking the multiple images for focus accuracy in the Viewer, you can manually transfer the MCU value from the optimal image to the camera. See the XF owner's manual for more information on the Hyperfocal distance tool.



Creating sequence sub-folders on import

When importing images from a CompactFlash card from the Phase One XF system camera and one or more Sequence has been captured, Capture One can automatically create and name sub-folders based on the metadata properties of the Sequence.



For example, when you have captured 10 HDR Sequences and then import them using the Dynamic Location Token for Sequence ID, Capture One can automatically create and name a sub folder for each HDR bracket, or Sequence.

1. Click on the **Import** button to open the dialog, and select only the images that are known to form a Sequence or a series of Sequences.
2. In the **Import To** tool, select where to store the imported images from the Store Files fly-out menu.
3. Adjacent to the Sub Folder field, click on the Location Sub Folder Tokens button (...). The Location Sub Folder Tokens dialog opens.
4. Select from the combination of four Sequence Naming tokens (**Sequence Type, ID, Count** and **Total**). For example, when just the Sequence ID token is used, a sub-folder is named and created for each individual sequence. When the Sequence Type token is placed in front of the Sequence ID with a forward or back slash (Mac/Windows) between them, the individual Sequence sub-folders are enclosed by a folder denoting the Sequence Type (in this case, if only HDR type sequences were captured, the enclosing folder would be HDR with ID subfolders).
5. Click **OK**, and continue with your usual import workflow.

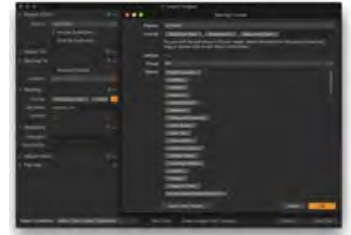
Note: When images are included on the CompactFlash card that aren't part of Sequence, re-open the importer and import images using a more relevant folder naming format.

Naming a sequence on import

When importing images from a CompactFlash card from the Phase One XF system camera and one or more Sequence has been captured, Capture One can automatically name the images based on the metadata properties of the Sequence.

1. Click on the **Import** button to open the dialog, and select only the images that are known to form a Sequence or a series of Sequences.
2. Follow your usual workflow with the Importer.
3. In the **Naming** tool, click on the Naming Format button (...) to the right of the text field. The Naming Format dialog opens.
4. Select from the combination of four Sequence Naming tokens (**Sequence Type, ID, Count and Total**). For example, when all four tokens are used in that order with underscore to separate them, the file name format will look like this: Focus Stacking_ABC0123_0011732_3_5.IIQ. This series identifies this image as the 3rd in a 5 frame Focus Stack, and details the serial number and unique ID of the Sequence.
5. Verify the name is in the desired format in the **Sample** text field.
6. Click **OK**, and continue with your usual workflow.

Note: When images are included on the CompactFlash card that aren't part of a Sequence, re-open the importer and import images using a more relevant naming format.



Naming a sequence when tethered

When a Sequence is being captured with a tethered Phase One XF system camera, Capture One can automatically name the images during import based on the metadata properties of the Sequence.

1. Follow your usual workflow when working tethered.
2. In the **Next Capture Naming** tool, click on the **Naming Format** button (...) to the right of the text field. The Naming Format dialog opens.
3. Select from the combination of four Sequence Naming tokens (Sequence Type, ID, Count and Total). For example, when all four tokens are used in that order with underscore to separate them, the file name format will look like this: **Focus Stacking_ABC0123_0011732_3_5.IIQ**. This identifies this image as the 3rd in a 5 frame Focus Stack, and details the serial number and unique ID of the Sequence.
4. Verify the name is in the desired format in the **Sample** text field.
5. Click **OK**, and continue with your usual workflow.



Batch renaming using sequences

1. Select the Sequence in the Browser.
2. Choose **Image > Batch Rename Images...** or ctrl-click (Mac) / right-click (PC) and select **Batch Rename...** to open the Batch Renaming tool.
3. From the **Method** fly-out menu, confirm the **Text and Tokens** option is selected (default).
4. Click the (...) button next to the Format text field to open the **Naming Format** dialog box.
5. Select from the combination of four Sequence Naming tokens (**Sequence Type, ID, Count and Total**). For example, when all four tokens are used in that order and using underscore to separate them, the file name will look like this: Focus Stacking_ABC0123_0011732_3_5.IIQ. This identifies this image as the 3rd in a 5 frame Focus Stack, and details the serial number and unique ID of the Sequence.
6. Click **OK** to accept the naming format
7. Verify the name is in the desired format in the **Sample** text field.
8. Click **Rename** to start renaming all the selected images.



Searching for sequences

You can search any collection for image Sequences using the Filters tool to find the Sequence metadata assigned at the time of capture by the Phase One

XF camera system. You can search by Sequence Type, ID, Count and Total.

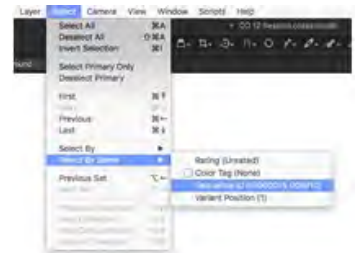
1. In the **Library Tool** tab, select a collection you want to search.
2. From the **Filters** tool, click on the action menu (...) and select **Show/Hide Filters...** A Metadata Filters dialog opens.
3. Select the Sequence type you want to search by (all four types can be added). The relevant search dialogs are added to the Filters tool.
4. In each dialog, Sequence data is shown alongside the number of images that match the search criteria.
5. Select the type of images you're searching for (e.g., Sequence Type > Hyperfocal) and click on the adjacent numbered radio button. The button is highlighted in orange (when the search is active) and the total number of images are immediately displayed in the Browser.
6. To clear the search, click on the active (orange) radio button, returning it to black. All of the images in the collection are displayed in the Browser once more.



Selecting sequences

Any Sequence can be selected from the Browser and isolated from other non-related images to get an overview and help with the initial organization. Photos are displayed in succession, unless images have been manually rearranged (i.e., the sort order has been changed).

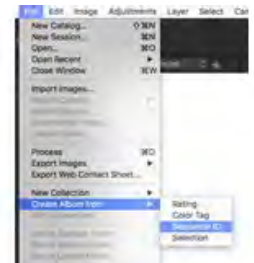
1. Click-on an image in the Browser that's a part of the Sequence you want to select. A small multi-image file icon, located bottom left in a thumbnail in the Browser, indicates the image is part of a Sequence.
2. Go to the menu and choose **Select > Select By Same**, then choose **Sequence ID**.
3. All the images in the Sequence are displayed in the Viewer (and selected in the Browser). (Note that Multi View option must be enabled in the Viewer bar.) During selection, the sort order cannot be altered.
4. To navigate through the Sequence without selecting other non-related images, you can use the optional Select buttons on the main Toolbar, or forward / backward arrow keys on the keyboard.



Creating an album from a sequence

After a Sequence has been selected you can save the Sequence as an Album. When there are multiple Sequences, you can select an entire import, or collection and create multiple Albums automatically, saving time and effort organizing the sequences into their respective groups.

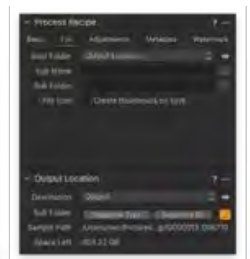
1. Select an image from a chosen Sequence in the browser, or, to make multiple albums, select all the images in a collection.
2. Go the menu and select **File > Create Albums From**, and choose **Sequence ID**.
3. Albums are created by Sequence ID in the Library tool (under User Collections in a Catalog, and as Sessions Albums in a Session).
4. Click on the new Album to reveal the Sequence in the Browser.



Creating sequence sub-folders on export

When exporting images Capture One can automatically create and name sub-folders based on the metadata properties of the Sequence. For example, you have captured 10 separate Focus Stacking Sequences, made some preliminary edits and now want to export the images for merging and rendering. Capture One can process the images and automatically create and name a sub-folder for each Focus Stacking Sequence.

Automatically naming and creating sub-folders on export using Capture One's



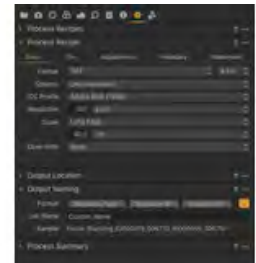
Dynamic Locations feature can be achieved on an improvised basis using the Process Recipe tool (using Sequence tokens in the Sub Folder text field). However this is a specialized tool intended to make presets and this particular option is useful when creating sub-folders by file format (using Recipe Name tokens). Best practice when creating Sequence sub-folders is to use the Output Location tool instead.

1. Select the images for export and choose the appropriate recipe or multiple recipes. Note, the Root Folder option in each chosen recipe must defer to the Output Location tool.
2. In the **Output Location** tool, click on the Sub Folder button (...) to the right of the text field. The Location Sub Folder Tokens dialog opens.
3. Select from the combination of four Sequence Naming tokens (**Sequence Type, ID, Count** and **Total**). For example, when just the Sequence ID token is used, a sub-folder is named and created for each individual Sequence. When the Sequence Type token is placed in front of the Sequence ID with a forward or back slash (Mac/Windows) between them, the individual sequence sub-folders are enclosed by a folder denoting the Sequence type (in this case, if only Focus Stacking type sequences were captured, the enclosing folder would be labeled Focus Stacking and include ID sub-folders).
4. In the **Sample** text field verify the name is in the desired format.
5. Click **OK**, and continue with your usual export workflow.

Naming images on export using sequences

Naming images on export can be achieved on an improvised basis using the Process Recipe tool (using Sequence tokens in the Sub Name text field and providing a complementary Sub Name token is used in the Output Naming tool). However it is a specialized tool intended to make presets. Best practice is to use the Output Naming tool instead.

1. Select the images for export and choose the appropriate recipe or multiple recipes.
2. In the **Output Naming** tool, click on the Naming Format button (...) to the right of the text field. The Naming Format dialog opens.
3. Select from the combination of four Sequence Naming tokens (**Sequence Type, ID, Count** and **Total**). For example, when all four tokens are used in that order and using underscore to separate them, the file name will look like this: Focus Stacking_ABC0123_0011732_3_5.IIQ. This identifies this image as the 3rd in a 5 frame Focus Stack, and details the serial number and unique Sequence ID.
4. Verify the name is in the desired format in the **Sample** text field. Note, for convenience when repeatedly using the same tokens, you can save the combination as a User Preset (as shown).
5. Click **OK**, and continue with your usual export workflow.



Exporting sequences to Helicon Focus ®

When capturing image sequences destined for focus stacking you can use Capture One to select the appropriate sequence (see above) and then export the images to the dedicated focus stacking application, Helicon Focus ®, by Helicon Soft Ltd.

Be aware that Helicon Focus is a third-party application and a separate license is required from Helicon focus, please see more at www.heliconsoft.com. To install Helicon Focus, go to the Capture One 12 Preferences and select Plugins, then click on the button on the lower right corner to install the plugin.

The Helicon Focus plugin for Capture One provides a fully automatic roundtrip workflow for Helicon Focus from HeliconSoft.

As an addition to the Focus Stacking feature in the Phase One XF Camera System, this plugin provides a simple and easy workflow to create stunning images with infinite depth of field. Read more about the XF Focus Stacking feature in the XF Camera System Manual available [here](#).

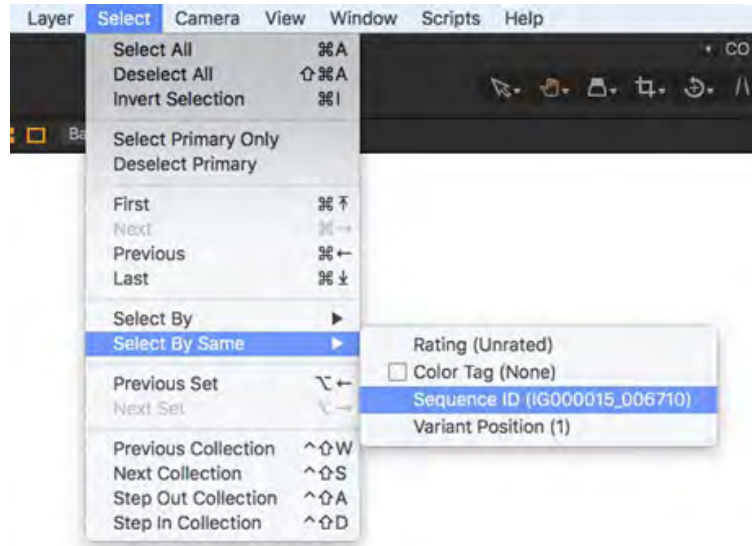
Helicon Focus operates directly on the RAW file, by processing them, and exporting the result to Helicon Focus, and then import the result back into the same folder.



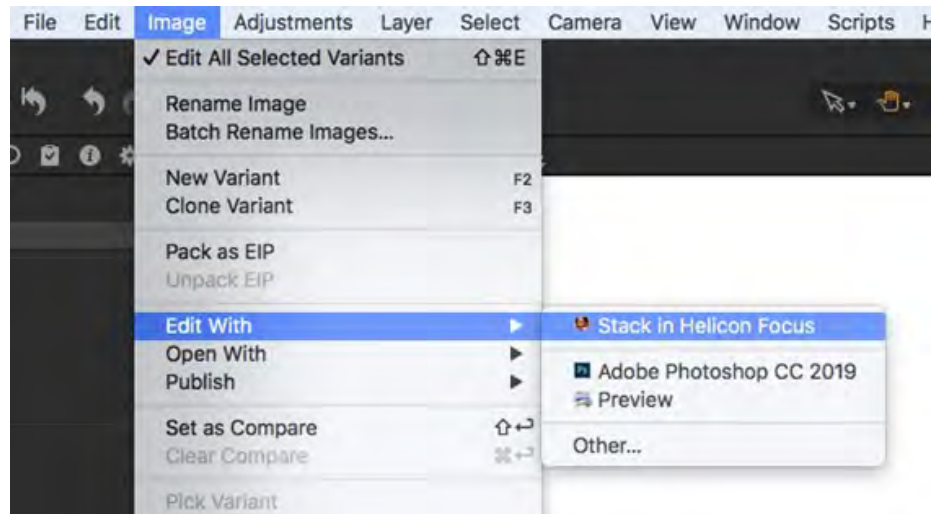
Process RAW files and export to Helicon Focus

When capturing image sequences destined for focus stacking you can use Capture One to select the appropriate sequence of images.

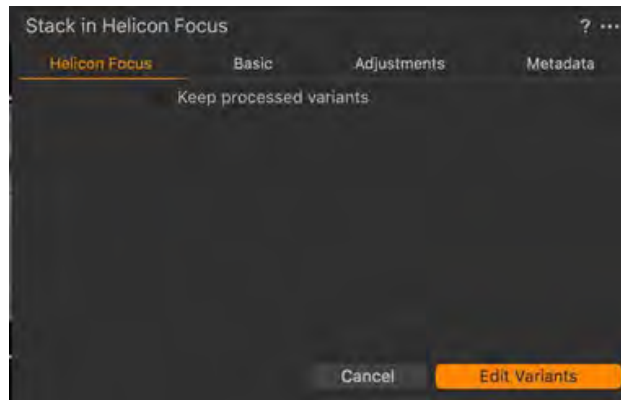
If the images are captured using Focus Stacking Tool on the XF Camera you can select them by Sequence ID (metatag). Select one of the images from the sequence and then choose **Select > Select By Same > Sequence ID**. All of the images with the same Sequence ID are now selected.



Otherwise you will have to select the images manually. When the images are selected, they can be sent to Helicon Focus by going to the menu and choosing **Image > Edit With > Stack in Helicon Focus**.

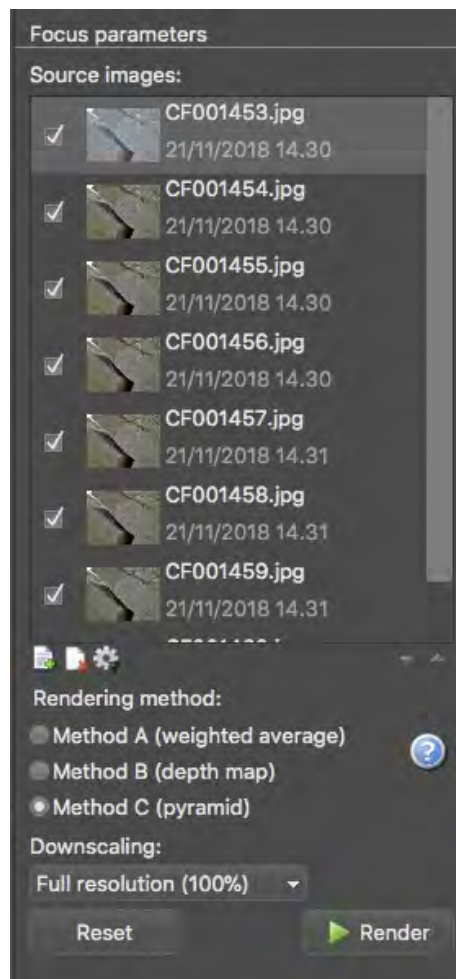


A dialog now opens. It will let you setup the output file that are used in Helicon Focus and some basic adjustments, please go through the tabs to verify that settings are as you want them to be.



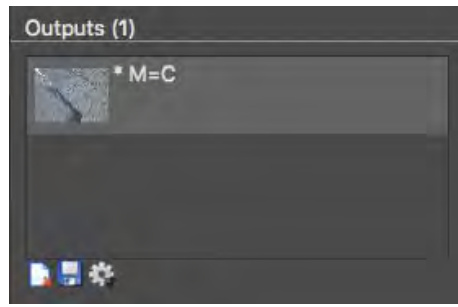
The **Keep processed variants** can be checked if you want to store the processed work-files in order to have a faster workflow for re-processing the images through Helicon focus at a later time (please see below). When things are setup as you would like them to be, click on the **Edit Variants**.

Now the selected images will be processed and imported into Helicon Focus, and Helicon Focus will be opened.



In Helicon Focus, you should select your rendering method, (please refer to the Helicon Focus Documentation) and click > **Render**.

Once the Stacking image is rendered, you should click save, and the dialog will point you into the original capture folder. Save your image here and exit Helicon focus.



Back in Capture One, you should now see your finished image, plus the saved variants, if you selected to keep them.

Using Helicon Focus® on processed variants

If you have selected **Keep processed variants** in the Helicon Focus dialog box (see above), Capture One is saving all the processed variants that are used for the focus stack. These will be placed in the capture folder.

This can be an advantage if you want to process the files through Helicon Focus again, without having to develop all the raw files again, which can be a time-consuming task if it involves many images.

In order to run the variants through Helicon Focus again, you should use the menu **Open With** command. Select all the variants, then go to the menu and select **Open With > Helicon Focus**.

This will bring those images directly into Helicon Focus, and you can redo your processing in there in the exact same way as in the original **Edit With** workflow (see above).



Export JPEG/TIFF files to Helicon Focus

1. Select the previously processed images (with either .jpg or .tif file extension) required for stacking. You can do this either individually, or, by selecting one image from the appropriate sequence of processed images and choosing **Select > Select By Same > Sequence ID**. All of the images with the same Sequence ID are selected).
2. Choose **Image > Open With**, and select **Helicon Focus** from the list.
3. Render the files in Helicon Focus (as directed in the developer's instruction manual) and name and save the file as appropriate.
4. The rendered file will be returned to the originating image folder (e.g., the Selects Session Folder) in Capture One by default and displayed in the browser.



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Managing Keywords and Metadata

[METADATA](#) / [PRESETS](#) / [RATING](#) / [FILTERS](#)

The Metadata inspector allows you to insert and manage keywords, as well as view and manage basic metadata.

Adding Keywords to Images

Capture One Pro provides a simple way to apply keywords to images to help both users and clients categorize, search and find photos.

Managing Metadata

The Metadata tool enables you to view camera (EXIF) data and add certain IPTC data to your images, prior to output.

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what the world's best photography is made of



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Adding Keywords to Images

Capture One Pro provides a simple way to apply keywords to images to help both users and clients categorize, search and find photos.

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Introduction

Adding keywords is particularly useful in large catalogs but this option is no less important for multiple small catalogs and sessions as well. Keywords may also be important if you're supplying photo agencies with images, where identification of the subject may be a requirement of submission.

Capture One supports hierarchal keywording and lists that are necessary for efficient organization. Hierarchical keywording makes it easier to find keywords and store them when hierarchies are collapsed. It is also a genuine time saver. Assigning the lowest level child keyword to an image adds all the keywords in the hierarchy.

Keyword data is stored by Capture One in XMP sidecar files by default for RAW and embedded in JPEG and TIFF files when assigned. Keywords applied to RAW files are only embedded when processed files (i.e., variants) are exported. Keyword data will not be embedded when exporting unprocessed RAW files (i.e., originals). Keywords are managed with two tools in the Metadata tool tab:

- Keywords tool
- Keyword Library tool

The Keywords tool interfaces with the selected image(s). Keywords can be added and removed from images using this tool.

The standard Capture One tool tips for local reset, local copy apply, pre-sets and help are available for this tool. See the section on [Optimizing Your Workflow](#) for more information.

The Keyword Library tool is used for managing the list (or lists) of keywords in the document. A document can be either a catalog or session. As the Keywords tool adds keywords to images, the document Keyword Library is populated. This forms a keyword list for any and all terms in the current document and is unique for the session or catalog.



Create and apply keywords to images

1. Go to the **Keywords** tool found by default under the [Metadata Tool Tab](#).
2. Next select the image or images from the browser that you want to add the keyword tags to. Note, keywords cannot be generated in the Keyword tool unless images are selected first.
3. Type the chosen keyword in the field labeled **Enter Keywords...** in the Keywords tool.
4. Press enter/return key to add the keyword(s).
5. To add another keyword tag or set of keywords, repeat from step 3.



Pro tip: Adding multiple keywords to an image or images using Keywords tool

- Multiple keywords can be added by separating entries with a comma (,) and then pressing enter/return: e.g Denmark,Vikings,Beer...

Pro tip: Adding keywords to multiple images

To add keywords to multiple images either:

- Select all the images required for the keywords (making sure Edit Selected Variants from the main toolbar is selected). Then type the keyword/s using the Keywords tool and press the enter/return key to add them.

Or

- Add keywords to one image then, while still highlighted, select the other images in batch and use the local copy and apply tool to paste the keywords to the others in the selection.

Pro tip: Working with keywords across multiple images

- If a selection of images contains keywords and a particular keyword only applies to some of the selection, then a minus sign (-) will appear on the left side of the keyword. Clicking on a keyword with a minus sign (-) will add the keyword to all selected images.
- Capture One has an auto-fill function for all Metadata fields including Keywords. As you start to type, Capture One will suggest keywords from those already added in your list. Click on one to select it, or scroll and click to select from a list, or use the up/down keys, then press enter. Note that the autofill function is not case sensitive.

Removing keywords from images

When a keyword is only applied to some images in a Variant group or a selection of images, a minus sign (-) will appear on the left side of the keyword in the Keywords tool. Pressing **(X)** will remove the keyword from only those images with that keyword within the selection.

1. Go the [Metadata Tool Tab](#), and select the **Keywords** tool.
2. Select the image(s) to remove the keywords from.
3. In the Keyword tool mouse over the keyword and press the **(X)** icon that appears on the right side.
4. Repeat to remove additional keywords.



Pro tip: To quickly remove all keywords from an image or variants that have been added from within Capture One only, select the images and use the local reset function, located on the Keyword tool's title bar.

When keywords originate from within XMP sidecar files, they can only be removed from an image or variant by pressing **(X)** on each keyword individually. This state is temporary with XMP. The keywords can be reapplied using the Keyword tool's local reset function.

Enter hierarchical keywords

1. Go the [Metadata Tool Tab](#).

2. Select the images that you want to add the keywords to.
3. Select the **Keywords** tool and enter hierarchical keywords in the **Enter Keywords...** field, dividing the keywords using pipe (|) or greater than (>) as separators. For example; Denmark|Viking|Thor... or Denmark>Viking>Thor...
4. Hierarchies can also be added in ascending order using the less than (<) symbol as the separator; Denmark<Viking<Thor... Note neither the space key or hyphen act as a separator.
5. Press enter (Windows)/return (Mac) to assign the hierarchical keywords.

To amend an existing hierarchical set of keywords, click on the keyword displayed in the Keywords tool and drag it to the new relevant position in the hierarchy.

Note: Keyword tags entered into the Keyword tool may be saved as a **User Preset**. This is a quick and easy way to add extensive keyword lists to a series of images, even when importing images into a document (Session or Catalog). Presets can be selected from the Styles drop-down menu in the Adjustments tool on the import images dialog box. There are no limits to the number of presets that can be saved, and the presets can be stacked allowing multiple lists to be applied.

Pro tip: It is worth spending some time planning and organizing hierarchies. If you have an extensive list of keywords, it may be quicker and more efficient creating hierarchies in the Library tool and then dragging the existing keywords into them.

Removing hierarchical keywords

Hierarchical keywords can be removed from an image by pressing the (X) icon in the keyword in the same way as single keywords. If a parent keyword is removed in a hierarchical keyword, then the sub-keyword or child is also removed, as it is deemed linked to the parent.

More about hierarchical keywords

Hierarchical keywords are displayed in the Keywords tool UI as a flat list but retain their hierarchical relationship in the Keyword Library. To see the relationship, mouse over the keyword in the Keywords tool to get tool tip showing the full path.

If the same keyword exists in more than one Keyword Library then the keyword label is appended with its child relationship to help distinguish in the UI which list it belongs to. See managing lists for more information on making additional Keyword Library.

Rearranging keywords

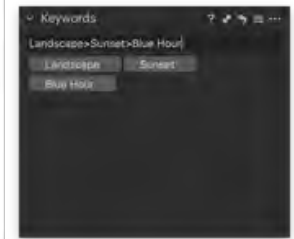
Capture One has a unique feature that allows the user to rearrange the keywords in the Keywords tool. Note this feature is only available to single image selections. If a batch is selected (along with the Edit Selected Variants option), then the keywords are presented alphabetically and cannot be manually sorted. As a reminder of this, an icon is displayed to the right of the Enter Keywords field.

1. To rearrange the keywords, click and drag the keywords to their new desired position. This will form the order of keywords when exported or synced to XMP.

Advanced technical note with regard to rearranging hierarchical keywords

Hierarchical keywords can be rearranged in the Keywords tool. Note for the purposes of syncing to XMP or exporting, the Keywords tool will extract and populate the keyword IPTC field as a "flat list" in the order chosen.

If hierarchical keywords are used this in workflow their order will be preserved and represented in an additional XMP "bag": the lightroom:hierarchicalSubject



bag. There will, therefore, be some discrepancies in the order of keywords in this workflow between the two fields if viewing the variant in Lightroom, Bridge or an application that supports this XMP bag.

Keyword library

Every document (session or catalog) in Capture One has a Keyword Library. You can make additional shared Keyword Libraries which will load alongside every document Keyword Library. For more information, see the Creating a Keyword Library section below.

The default keyword library

Every document in Capture One has either a **Session Keywords** or **Catalog Keywords** library, depending on your chosen document type. As you add keywords to images in a catalog or session, the default keyword library for the document will automatically populate.

The Keyword Library displays two types of keyword:

- **Active** (highlighted as solid gray) which indicates the word is applied to the image.
- **Passive** (displayed black with a gray outline) indicating the word is in the library but not applied to the selected image. Passive keywords will remain in the library even if removed from all the images.

To remove a keyword from the document library (and any images that it is applied to), right click on the keyword and choose **Delete Selected Keywords...**



Creating a new keyword library

It is sometimes necessary to have a number of libraries, either for a specific purpose, or for controlling vocabulary. Libraries made in addition to the document library are referred to as "Shared", as once created, any subsequent document opened or created will load these libraries alongside the default document library.

Shared libraries are stored in the application support folder with the extension .cokeywordsDB (see managing Keyword Library).

To create a new shared Keyword Library, click on the contextual menu (...) icon in the Keyword Library tool and choose from the following:

- New (empty library).
- From Keywords text file (a previously exported Keyword Library).
- From a Media Pro Vocabulary File.
- From Capture One Catalog/Session (extracts the Document Keyword Library from the chosen Catalog/Session file).



Adding keywords to a keyword library

If you wish to add a keyword to any available Keyword Library, shared or otherwise, without adding it to an image, click on the (+) icon next to the desired list to add a keyword. The keyword will appear in the list as passive (displayed black with a gray outline).



Editing keywords in the keyword library

To edit a keyword in the Keyword Library, right-click on the keyword and choose **Rename...**

To add a child keyword (hierarchical) to an existing term, right-click on the keyword and choose **Create Keyword Child**.

To delete a keyword from the library including any images that they are applied to, right-click on the keyword and choose **Delete Selected Keywords...**



To delete multiple keywords from a Keyword Library (including any images that they are applied to), hold the shift key when making a sequential selection or hold the cmd (Mac) / ctrl (PC) key for an arbitrary selection, then right click and choose **Delete Selected Keywords...**

Notes about editing Document and Keyword Libraries

- Editing a keyword in the document Keyword Library will update the images in the document with those keywords.
- Editing keywords in Shared Keyword Libraries will NOT update their respective images.
- Session users: Editing or deleting keywords in the Session Keyword Library will only update those keywords applied to images in directories which are part of the session. These are Favorites or the Session folders (Capture, Output, Selects, Trash).

Add keywords to images in the keyword library

All Keywords listed in the Keyword Library can be added to images. Select the image or images, then click on a keyword from the Keyword Library to apply it. Keywords added here will be displayed in the Keywords tool.



When applying a keyword child to images, any parents already associated with that child will also be applied.

Remove keywords from images in the keyword Library

To remove a keyword from an image, or multiple images, using the Keyword Library, highlight the image, or images, then click on the (X) icon in the relevant keywords in the list.



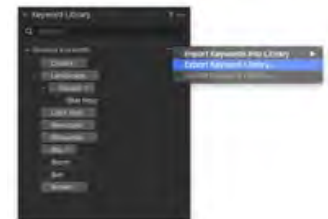
The relevant keywords will be removed from the Keywords tool while the Keywords Library tool will be updated and display the changes made. Keywords removed from images will still be displayed in the library's list but the keyword will have changed from active (solid gray) to passive (black with a gray outline).

Any active keywords (i.e., those still applied to the selected images) will be shown in both the Keywords palette and the Keywords Library tool.

Managing keyword libraries

Managing the Keyword Library – or indeed multiple Keyword Libraries – is the key to mastering quick keywording.

If a list is required for use in another workstation, or if you wish to export a document Keyword Library as a foundation for a custom Keyword Library you can export the list from the contextual menu option (...) in the specific Keyword Library to a text file (.txt).



This txt format can then be imported on another workstation, shared, or reimported for customization. Upon import of txt file this is converted to a .cokeywordsdb file and stored in the applications support folder.

To import a Keyword Library from another source, click on the (...) icon on the keyword library tool bar and then **Create Keyword Library...** and then an

option from the fly-out menu. Capture One supports import from a variety of sources.

Supported sources:

- Keyword TXT file (file generated by exporting an existing Keyword Library)
- Media Pro vocabulary file
- Catalog/session (document Keyword Library from selected Catalog/Session)

Note: When importing text files with keywords (keyword lists (e.g., from Lightroom) and Media Pro vocabulary files) the following characters are not allowed in the text file:

| ; , < >

By default Shared Keyword Libraries are stored in the application support folder:

Mac: ~/library/application support/capture one/keywords

Win: user\appdata\local\capture one\keywordlibraries

Any Keyword Library saved in these directories will automatically load into created or opened documents.

Additive metadata lists

To complement the keyword implementation, the logic of combining keyword presets has changed in Capture One to allow blending of presets in a more predictable sequence.

Tools affected are keywords and IPTC fields, where word lists are supported:

- Subject Code
- Supplemental Categories
- Scene
- Getty Personality
- Keywords

In versions prior to Capture One 9, for example, combining the presets:

A
B
C

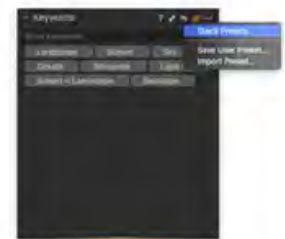
And:

A
D
E
F

Would result in B and C being removed in the keyword list.

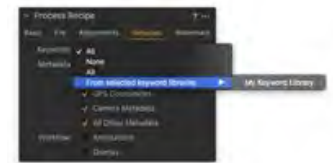
Capture One now combines the list in a more logical way, so that the resulting list would be:

A
B
C
D
E
F



Controlling keyword libraries on export

When exporting images, Capture One will include any assigned keywords from shared keyword libraries by default. However, you can select specific keyword libraries to limit keywords assigned to images during export. This is useful when you have a controlled vocabulary for a particular use, for example, when submitting images to a news agency or stock library.



1. From the [Output Tool Tab](#), select the appropriate recipe from the **Process Recipes** list, or create a new recipe specifically for the purpose. When the recipe is highlighted in orange, amendments will be saved automatically. (Note that if multiple recipes are to be used for export, the following selection will have to be made for each recipe.)
2. In the **Process Recipe** tool located below the recipes list, select the **Metadata tab**.
3. Click on the Text field under **Include Keywords**, select **From selected keyword libraries**, and choose the relevant library from the list. Only shared libraries can be chosen.
4. When exporting images with the controlled keywords, remember to enable the recipe in the list by selecting the checkbox.

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Managing Metadata

The Metadata tool enables you to view camera (EXIF) data and add certain IPTC data to your images, prior to output.

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Introduction

Metadata can be very useful when organizing photos or used to simply brand images with some indications of the image type or photo creator. You can set up your own metadata stamps (e.g. copyright, client profiles) and apply these to multiple images. It is also possible to create your own Metadata Presets (a collection of values).

Add metadata by inserting keywords in the Metadata tab. Alternatively, add metadata to images by applying a Style or a Preset. Metadata Presets can be applied as a Style containing a number of presets, or as one preset containing metadata from one metadata category.



Create a metadata preset

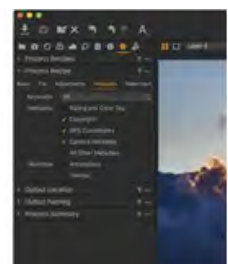
There is no limit to the number of saved metadata presets. It is possible to apply any number of presets to any number of images, referred to as Stacked Presets. See [Styles & Presets](#).

1. Go to the **Metadata** tab and insert keywords and info into one or more of the metadata categories.
2. Click on the small preset icon and select **Save User Preset**. The Save Preset window will open. Note, the **Save Preset** dialog box enables users to uncheck specific metadata details that you want stripped from an image (see below for details on [stripping metadata](#)).
3. Uncheck any unwanted metadata values and press the Save button. The Save Dialog will open.
4. Name and save the Preset.
5. You have now created a Metadata Preset.



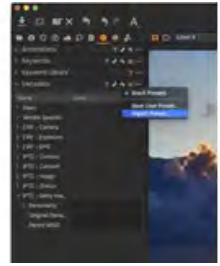
Strip specific metadata from output files

1. Go to the **Output Tool Tab** and click the Metadata tab in the [Process Recipe](#) tool.
2. Uncheck the metadata categories you do not want to include in the output file.
3. Your current Process recipe is now updated, containing the checked categories only.



Manually or automatically add Getty Images metadata fields

1. From the **Metadata Tool Tab**, go to the **Getty Images** section.
2. Alternatively, click on the **Manage Presets** icon and select the **Import Preset...** option.
3. Now it is possible to select any relevant (.txt etc) file to automatically add metadata info.



Activate or deselect auto sync sidecar XMP

1. Go to **Capture One** (in the top menu bar) and select **Preferences**. Click on the **Image** icon in the Preferences dialog box. Now choose one of the three options from the **Auto Sync Sidecar XMP** drop down menu (in the **Metadata** section).

Note: To quickly reload or Sync Metadata, select the Metadata tool and click on the action menu (three dots) icon and choose one of the two (reload or sync) options.



Learn more

Metadata is stored in the Capture One settings file and can be embedded in the output file (e.g. JPG) if desired. You can change the Basic metadata such as the filename, rating, caption and copyright. You can also set Caption and Copyright information when importing photos. This saves time when you need to process a batch of photos or produce a [Web Contact Sheet](#). In some cases, you might want to strip metadata from an output file and this can easily be achieved by creating a Process recipe.



If you have metadata related to a raw file in a standard metadata format like XMP (Extensible Metadata Platform) then Capture One will automatically reload the metadata and merge the .XMP sidecar with the metadata already created in Capture One.

Capture One can read and store metadata in the following four formats: Embedded EXIF, Embedded IPTC-IIM, Embedded XMP and .XMP Sidecar file – these four types of metadata will be automatically updated and read.

Reloading and auto load

View any changes made to metadata in an external application (e.g. Media Pro) by pressing **Reload** in the Metadata tool's action menu.

You can set Capture One to auto load metadata by checking the **Auto load** checkbox in **Preferences>Image>Metadata**. You also can also sync the metadata between the **Variant** and the **XMP sidecar**. If no preferred sync option is checked the software will use the sidecar values. Otherwise the embedded Capture One values will be applied.



Text completions

Capture One has a text completion function for all Metadata (text) fields. Capture One remembers text that a user has previously entered for each field in the Metadata Inspector. The text will be saved to User Defaults.

Previously entered text will appear in a popup list when a user is editing field text. Press the return key to select the text.

Go to the action menu (three dots) icon and select **Reset Metadata Completions** to clear any previously entered text. (Warning: This action cannot be undone).



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Deleting Images

Find out how to delete source images and variants in Sessions as well as referenced and managed variants in Catalogs.

- [An overview of deleting images and variants](#)
- [Deleting images and their variants from Collections](#)
- [Deleting only variants from Collections](#)
- [Deleting variants from an Album](#)
- [Deleting variants from a Project \(Mac only\)](#)
- [Deleting images and variants from the Session Trash](#)
- [Deleting images and variants from the Catalog Trash](#)
- [Deleting images and variants immediately](#)
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An overview of deleting images and variants

Although Capture One creates variants of the source images to work with non-destructively, when it comes to either moving or deleting, variants cannot be separated from the source image. Therefore, when an image has one variant, moving or deleting that variant will also move or delete the source image. Similarly, when an image has several variants and you move or delete them all, then you will also move or delete the source image.

However, there are certain times when you can delete a variant without deleting the source image. For example, when an image has several variants, and you leave at least one variant of that image in the Collection undeleted, then the source image is not deleted. Similarly, variants can be deleted from Albums without deleting the source image and its variant or variants located elsewhere.

As a result, Capture One has four commands in the Image and File menus that allow you to manage the removal or deletion of images, regardless of how many variants you have or where they're stored.

You will find Delete, Move to Catalog/Session Trash and Delete from Disk in the Image menu, while Empty Catalog/Session Trash... is in the File menu (since this is a documents wide command).

Each command provides a similar workflow throughout Capture One, not only between Sessions and Catalogs, and with referenced and managed source image files, but also when deleting images from Albums where it can be difficult to know where else the image is located.

One or more of the commands will be available at the same time allowing you to move or delete images, however, it is the Delete command that's most likely to be adopted in the day-to-day deleting of images.

Bear in mind the context of the Delete command can change to that of the Move to Catalog/Session Trash and Delete from Disk commands, depending on how many variants there are of an image, how many are selected, and where they're located.

Thus, it's recommended that you use either the main or contextual menu to select the Delete command until you're familiar with it, as they give a clear indication of the intended action. Even then, with the exception of the Delete (from Disk) option, it is typically the easiest to undo if you make a mistake.

Deleting images and their variants from Collections

The workflow is identical when deleting images from either Catalog or Sessions Collections (i.e. Folders in the Library other than Albums).

When you delete one image with one variant or an image and all of its variants, Capture One moves the image and its variant or variants to the

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Catalog/Session Trash. **Warning!** The source image and its variant or variants located elsewhere (e.g., in Albums, Favorites and other Collections) are also moved to the Catalog/Session Trash, pending permanent deletion.

Note the delete command can be undone (Edit > Undo Move To Trash) or images can be moved back by dragging to the relevant Collection or Folder in the Library.

To prevent the unnecessary moving of source images in a Session when the images are located on a different disk to the Session Trash, the **Delete from Disk** command should be used instead of the **Delete (Move to Session Trash)/Move to Session Trash** commands. Moving source image files from one disk to another may take a long time to complete, especially if they're located on a network. **Warning!** Source images are deleted immediately. This cannot be undone. See [Deleting Images Immediately](#) for more information.

1. Select the Collection.
2. From the browser, select the image and its variant or variants to delete, then choose **Image > Delete (Move To Catalog/Session Trash)** (or press Cmd+backspace, press X in the toolbar or cursor tool or drag images to the Catalog/Session Trash). Note there is no warning dialog displayed.
3. Selected images are moved to the Catalog/Session Trash.
4. **Warning!** Emptying the image variants from the Catalog/Session Trash from the **File** menu may result in the permanent deletion of your source images. This cannot be undone.

Deleting only variants from Collections

The workflow is identical when deleting variants from either Catalog or Sessions Collections (i.e. Folders in the Library other than Albums).

When you want to delete specific variants of an image, leaving at least one variant of the image in the Collection, Capture One will delete those selected from that Collection and in every other location. The source image and its variant or variants located elsewhere (e.g., in Albums, Favorites and Collections) are not deleted.

Note the delete command can be undone (Edit > Undo Delete Variants).

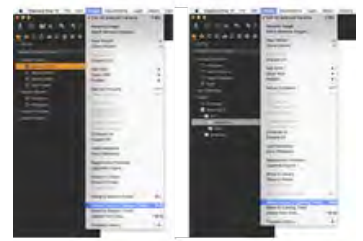
1. Select the Collection.
2. From the browser, select the variants of an image to delete (leaving at least one variant of the image in Collection), then choose Image > Delete (Variants), or press Cmd+backspace, press X in the toolbar or cursor tool. Note there is no warning dialog displayed.
3. Selected variants are deleted immediately.

Deleting variants from an Album

When you delete an image with one variant (or an image and all of its variants) from an User Album, Capture One deletes the selected variants only from that Album. The source image and its variant or variants located elsewhere (e.g., in other Albums, Favorites and Collections) are not deleted.

When you want to delete specific variants of an image, leaving at least one variant of the image in the Album, Capture One will delete those selected from that Album and in every other location where that variant is located. The source image and its variant or variants located elsewhere (e.g., in other Albums, Favorites and Collections) are not deleted.

The behavior is identical between a Session Album and an Album in a Catalog (located in the Library's User Collection). Collectively, these albums are known as User Albums. Note, that in all cases when that variant is selected by a Smart Album, then it will also be removed from there.



1. Select the User Album.
2. From the browser, select the image to delete, then choose **Image > Delete** (from Album "Name"), or press Cmd/Ctrl+backspace (Mac/Windows), or press X in the toolbar or cursor tool). Note, in this instance, there is no warning dialog displayed.
3. The selected image is removed from the Album (and filtered Smart Album, if applicable). The source image and its variant or variants located elsewhere are not moved or deleted.

Deleting variants from a Project (Mac only)

When working in a Catalog on a Mac, images organized inside Albums are visible from Projects. Therefore, when you delete an image with one variant (or an image and all of its variants) from a Project, Capture One deletes only the selected variant or variants from any of the Albums where they're located within the Project. The source image and its variant or variants located elsewhere (e.g., in other Albums outside the Project, Favorites and Collections) are not deleted.

When you want to delete specific variants of an image, leaving at least one variant of the image in the Project, Capture One will only delete those selected from any Albums within the Project and in every other location where that variant is located. The source image and its variant or variants located elsewhere (e.g., in other Albums, Favorites and Collections) are not deleted.

1. Select the Project from User Collections folder.
2. From the browser, select the image, then choose **Image > Delete** (from Project "[Project Name]"), or press Cmd+backspace, or press X in the toolbar or cursor tool. Note, in this instance there is no warning dialog displayed.
3. The selected variant is deleted from the Project and the Album or Albums within (and filtered Smart Album, if applicable). The source image and its variant or variants located elsewhere are not deleted.



Deleting images and variants from the Session Trash

When images and their variants are located inside the Session Trash, emptying the Trash will permanently delete your source images. As a safety feature, Capture One will by default open a dialog box to confirm deletion - it is recommended not to disable this warning dialog.

Warning! Deleting images from the Session Trash cannot be undone, images are not placed in the system trash and therefore cannot be retrieved later.

Images inside the Trash are read-only and cannot be edited (thumbnails are indicated by a small crossed-over pencil icon, and all the sliders and tools are disabled). Note this is intended to prevent the editing of images or their variants that are located in the Trash without the user being aware. Without this feature, editing images or variants in the Trash may result in wasted time if they're inadvertently deleted later.

1. Choose File > Empty Session Trash. Focus (i.e., pre-selection) on the Trash Collection is not required. (Note you can delete images and their variants individually from the Trash. Select the Trash Collection and then choose File > Delete (Variant)/Delete (From Disk) or press Cmd/Ctrl+backspace (Mac/Windows), or press X in the toolbar or cursor tool.
2. When deleting from the Session Trash a warning dialog opens asking you to confirm the action:
 - o To permanently delete the source images - click on **Delete from Disk. Warning!** Source image files are deleted immediately and can't be undone.
 - o If you realize you've made a mistake before deleting, press **Cancel**, select the image from the Browser and drag the image and its variants back to the relevant Session- or System-Folder in the Library.



Deleting images and variants from the Catalog Trash

As there maybe a mixture of images and variants in the Catalog Trash, when emptying it Capture One will identify the type available there and open the appropriate dialog, or series of dialogs, asking you to confirm your choice. It is recommended not to disable this warning option.

Warning! Deleting images from the Catalog Trash cannot be undone, images are not placed in the system trash and therefore cannot be retrieved later.

When emptying the Catalog Trash of variants that reference source images, you will be asked if you want to remove the variants from the Catalog or whether you want to delete the source images. Removing the variants from the Catalog (Remove from Catalog) will leave the source images in place wherever they're located for future use. Deleting (Delete from Disk) immediately deletes the both the variants and source images and can't be undone.

If there are variants referencing source images that are currently offline (i.e., source images residing on an unconnected external disk, or with a broken link on a local or external disk and indicated by a question mark (?)), only the variants will be removed from the Catalog. The source images will not be deleted.

When there are managed images in the Catalog Trash, Capture One treats the variants as the source images, therefore a dialog will open asking you to confirm their deletion. Note these images cannot be offline as they are stored inside the Catalog itself.

Images inside the Catalog Trash are read-only and cannot be edited (thumbnails are indicated by a small crossed-over pencil icon, and all the sliders and tools are disabled). Note this is intended to prevent the editing of images or their variants without the user being aware. Without this feature, editing images or variants in the Catalog Trash may result in wasted time if they're inadvertently deleted later.

1. Choose File > Empty Catalog Trash. Focus (i.e., pre-selection) on the Trash Collection is not required. (Note you can delete individual images or variants from the Trash. Select the Trash Collection and then choose **Image > Delete (Variant)/Delete (From Disk)** or press **Cmd/Ctrl+backspace** (Mac/Windows), or press **X** in the toolbar or cursor tool.)
2. Capture One identifies the type of images in the the Trash and a dialog appears asking you to confirm the action for each type, choose from the following (where relevant):
 - o To remove only the variant or variants from the Catalog (leaving the source image untouched in its current location) - click on the **Remove from Catalog** button.
 - o When you want to permanently delete the source images - click on **Delete from Disk**. **Warning!** Source image files are deleted immediately and can't be undone.
 - o If you realize you've made a mistake before deleting, press **Cancel**, select the image from the Browser and drag the image and its variants back to any Catalog- or User-Collection.



Deleting images and variants immediately

Capture One allows you to delete source images and all their variants immediately from all Collections even Albums, bypassing both the Catalog/Session Trash and permanently deleting the images from the disk. This option is provided for users to delete unwanted source images as quickly as possible in their workflow.

Warning! This command cannot be undone. An image and its variants is considered a source image by Capture One, therefore, whether you are deleting an image with one variant, or all the variants of an image, you will also be deleting its source image.

To prevent the unnecessary moving of source images in a Session when the images are located on a different disk to the Session Trash, the Delete from



Disk command should also be used instead of the Delete (Move to Session Trash)/Move to Session Trash commands. Moving source image files from one disk to another may take a long time to complete, especially if they're located on a network.

Note the physical moving of referenced source images does not occur with the Delete (Move to Catalog Trash)/Move to Catalog Trash commands. However, you can still adopt the Delete from Disk command when working in a Catalog, should you need to. Also note if the source image file is not available (i.e., offline), for example it's located on an unconnected external disk, then it will not be deleted.

1. Select the image and its variant or variants in the Browser.
2. Choose **Image > Delete from Disk**. A dialog appears asking to confirm the action.
3. Click on the **Delete from Disk** button.
4. **Warning!** This will result in the permanent deletion of your source images and their variants. This cannot be undone.

Deleting offline images and variants

When a source image is not available to Capture One (e.g., typically when referenced in a Catalog and the source image is moved using the Finder or Explorer, or an external disk containing the source image is not connected), the variant in the browser displays a small question mark (?) icon in the lower right-hand corner of the thumbnail. In addition, the variant in the Viewer shows the same icon along with the warning Offline.

When deleting an image and its variant or variants referencing an offline source image, Capture One moves only the variant or variants to the Catalog Trash, pending emptying and permanent deletion. As the source image is not immediately accessible, it can't be removed from the Trash and deleted until the drive is reconnected.

Note when deleting specific variants of an image referencing an offline source image, only the selected variants are deleted from the Catalog, the source image and any other variants of that image are not deleted. In that context, the Delete (Move to Catalog Trash) command changes to Delete (Variant/s).

1. Select the image and its variant or variants in the browser, and then choose from one of the following options:
 - o From the main menu, select **Image > Delete** (Move to Catalog Trash).
 - o Ctrl/right-click (Mac/Windows) and select **Delete (Move to Catalog Trash)** from the contextual menu.
 - o Click on the Delete (X) icon in the main toolbar.
 - o Click and drag an image to the Catalog Trash.
2. The variant or variants of the image are moved to the **Catalog Trash**.
3. If you select **File > Empty Catalog Trash...** A dialog opens asking you to **Remove from Catalog** (i.e., only the variant or variants are deleted), or **Cancel**.
4. If you reconnect the drive or the source image is located and select **Empty Catalog Trash...** a warning dialog will open to ask you to confirm whether you want to **Delete from Disk** (i.e., delete the variant or variants and the source image), or **Remove from Catalog** (i.e., delete the variant or variants and leave the source image in its original location).



Restoring images and variants to their Collections

If you have moved an image and its variant or variants to the Catalog/Session Trash accidentally or otherwise, it's easy to restore both the image and its variants by dragging them out. When there's more than one variant of an image, you do not have to select them all. In Capture One, when moving one variant of an image all of the variants of that image are moved.

When working in a Catalog or a Session, you're not restricted in where they can be moved to (you can move them to any relevant Catalog/Session Collection, including an Album in a Catalog), though it is likely you will want to return them to their original location. In a typical Session, that is usually straightforward enough but, if you are unsure where the image or images were



deleted from in a Catalog, which can be large and complex, it is best to drag them to the All Images Collection.

1. From the Library, select the image in the Catalog/Session Trash.
2. Drag and drop the image in a relevant Catalog/Session Collection.
3. The image and its variant or variants will be removed from the Catalog/Session Trash.

Verifying warnings when deleting

If you want to check that the warning dialogs for moving and deleting images from the Catalog/Session Trash or disk are enabled, they can be verified from the application preferences, go to Capture One > Preferences (Mac) or Edit > Preferences (Windows).

Note, it is generally not recommended to disable these dialogs, especially the **Warn when deleting images from disk** option. Images are deleted permanently, and cannot be recovered from the system trash.



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Tethered Capture

[TETHERED SHOOTING](#) / [SESSIONS](#) / [LIVE VIEW](#) / [OVERLAY](#)

Shoot directly to the computer for an instant preview on screen, automatically apply image adjustments and control the camera. This section describes how to get the most from Capture One when working with a tethered camera.

Tethered Capture Overview ^{Pro}

Shoot directly into Capture One using Sessions or Catalogs; the world's most advanced tethered capture solution.

Capture Naming and Counters

Capture One imports images directly when working with a tethered camera, and you can choose from and apply a wide range of naming and counter options in the process.

Changing the Capture Location

Whether you're working with a Session or a Catalog, Capture One always stores captured images on the computer rather than the camera's memory card. You can leave the storage destination to Capture One or you can override it, however as a Session and Catalog vary in how they manage images there are some different options available.

Apply Capture Adjustments

Capture One can automatically apply a range of adjustments, including ICC profiles, metadata and image settings, as well as built-in or user-defined presets and styles to captured images to help you work faster.

Applying Camera Settings

When working tethered using a supported camera model, you can alter a wide range of camera settings, as well as adjust focus, initiate live view and trigger the shutter, all directly from within Capture One.

Working with an Overlay ^{Pro}

Use the Overlay tool when working tethered to help capture images for a specific layout or design. The Overlay tool can also be used when working with Live View.

Working in Live View Mode ^{Pro}

Accelerate your workflow with Live View for supported medium format and certain Canon, Nikon and Sony cameras.



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Tethered Capture Overview^{Pro}

TETHERED SHOOTING / IMAGE CAPTURE / FOLDERS

Shoot directly into Capture One using Sessions or Catalogs; the world's most advanced tethered capture solution.

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- Starting a tethered Session
- Creating a new tethered Catalog
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Introduction

The Capture tool tab is the gateway to tethered shooting with a Phase One digital back or supported DSLR. When connected to the computer, you can import photos directly into a Session or Catalog and store them on the hard disk or an external drive, avoiding importing from a memory card.

Capture One allows full control over a compatible camera. You can adjust a wide range of camera settings and parameters, including the exposure and metering modes, exposure compensation, ISO, white balance and release the shutter. Capture One can even activate a camera's live view function and you can adjust the focusing either remotely, or manually, using the computer's monitor for composition and to check focus accuracy with an enlarged live preview.

For the latest information on compatible cameras, please refer to the [Supported Cameras](#) page, or view the release notes for the application. Note, supported cameras require a USB (or FireWire) cable to connect the camera to the computer (check your supported configuration in the camera documentation) for a simple out-of-the-box, "plug and play" experience.

In addition, the Capture tool tab allows you to apply a wide range of image adjustments, and multiple styles including image presets, keywords and IPTC metadata automatically from image to image, as well as name photos and name and create folders on import.

You can also connect to Capture One Pro wirelessly with the Capture Pilot app and an iOS device that lets you present, rate and capture images remotely. The Capture Pilot dialog in Capture One also has a separate web function that enables you, your Art Director and your colleagues to view, rate and color tag captured images from a web browser on a computer, Android (mobile device) or Windows Phone operating system.



Network connection

Automatic network connection

Capture One 12 can automatically establish an IP network connection over Ethernet cable or WiFi to a Phase One IQ4 Digital Back via the built-in Bonjour feature. There is no need to configure the IP connection; you just select the IQ4 as the connected camera system from drop-down menu in the Camera tool.

Once the IQ4 is selected and the connection is active in the Camera tool, you



can control the IQ4 and begin the tethering session from Capture One.

Note! The automatic IP connection feature works natively on the macOS, but if you're working on a Windows pc, you need to have Apple's Bonjour installed. This is done by downloading and installing either iTunes for Windows or Bonjour Print Services for Windows from Apple.

The automatic IP connection feature also works with Phase One Industrial iMX cameras, attached via Ethernet cable.

Manual network connection

If the automatic Bonjour connection feature doesn't work, or you need to connect via a specific IP network address, you can enter the necessary IP address manually in Capture One. Go to the **Camera** menu and select **Network Camera Manager...** Click **Add...**, and then enter the **Name** for the network and type in the required IP address in the **Address** field. Then click **Add**, then **Done**.

The **Camera Settings** tool in Capture One will let you review the IP connections details (IP hostname, IP address, and IP connection port) if you need to troubleshoot the network setup.

Overview of workflow using a supported camera

1. Start a new Session, or if you prefer, you can use a Catalog instead.
2. Open the [Capture Tool Tab](#).
3. When a supported camera is connected and powered up (see your camera documentation for the supported transfer specification), Capture One will immediately recognize the model and populate both the Camera and Camera Settings tools with the relevant camera menus and settings.
4. From the **Camera Settings** tool, select the desired camera settings from the appropriate drop-down menu, or using the +/- buttons. For example, ISO, exposure mode (Av/Tv/M or P) and File format. Note the available camera settings depends on the support for the camera model.
5. Press the Capture button, located in the **Camera** tool.
6. Set the white balance by clicking on the brightest white area with detail in the captured image, using the **White Balance picker** (eye dropper) tool located in the **Camera** tool or **Cursor tool bar**.
7. Check the **Next Capture Adjustments** tool settings. The **Copy from Last** choice will copy the settings from the previous capture and will ensure that resulting images attain a similar look.



Starting a tethered Session

Sessions are popular for tethered capture, due to their portable and autonomous folder structure. However, you can work tethered in a Catalog if you prefer, see below for more information. Note a tethered Session is no different to a regular Session, though there are some important points to consider in the workflow prior to capturing and saving images to your computer.

1. From the main menu, choose File > **New Session...** A New Session dialog will open. When capturing images using an existing Session, ignore this section and instead verify the tool settings starting with the [Name or rename files](#) section.
2. In the **Name** text field, add a descriptive name for the new Session.
3. In the **Location** text field, verify where the captured images will be stored is convenient. The default setting is the Pictures/My Pictures folder (Mac/Windows) on your computer. You can choose a new location by clicking on the (...) icon to the right of the Location text field. (The location can be altered later if necessary, using the Next Capture Location tool.) Note, the camera does NOT save or back up images to the memory card, and does not require a memory card to be installed.
4. In the **Subfolder** text fields, choose between the default names or rename them to suit. If new to working with Sessions, it is recommended to leave these folder names unaltered.
5. Choose a **Template** if you have one set-up, otherwise leave as Blank. When starting a new tethered session, templates offer a convenient method for adopting a predetermined set of albums, favorites and sub-folders. See



the link below for more information on Templates. Note, you can NOT create multiple sub-folders using Capture One's token-based dynamic locations feature when creating a Session, you can only add them if you've saved a hierarchy of folders previously as a template.

6. In the **Capture** name text field, the Session name is adopted automatically for naming images. However, you can choose another name now, or change it later, if necessary (see **Next Capture Naming** tool for more information).
7. Click **OK** to save the selections.

Find out about [Templates](#) and [Dynamic Locations](#) in Sessions.

Creating a new tethered Catalog

While Sessions are typically used for tethered capture, Catalogs are also well suited. While you don't have to create a new catalog every time you want to work tethered, it makes sense to if you want to share the database and image files between colleagues. Creating a Catalog when working with a tethered camera is no different to a regular Catalog, however there are some points to consider, such as changing the location of captured files from the default setting, which is inside the database file.

1. From the main menu, choose File > New Catalog... a New Catalog dialog will open. When capturing images using an existing Catalog, ignore this section, connect a camera and verify the tool settings detailed in the [Name or rename files](#) section.
2. In the **Name** text field, add a name for the new catalog.
3. In the **Location** text field, verify where the catalog and captured images will be stored is convenient, or choose a new location by clicking on the (...) icon to the right of the Location field. Note as the catalog is a database file, for optimum performance it should be located on a high-speed HDD, or an SSD. For convenience when working offline, the drive must be local, however, catalogs can be saved to an external drive or an network drive when necessary.
4. When creating a new catalog for tethered capture, image files are managed and stored INSIDE the catalog by default. After the catalog has been created, you can choose to reference the images later using the **Next Capture Location** tool. For more details, see the section [Change where to store captures](#). Note, the camera does NOT save, or back up, images to the memory card, and in fact does not require a memory card to be installed.
5. Choose a **Template** if you have one set-up, otherwise leave as Blank. When setting up a new tethered catalog, templates offer a convenient method for adopting a predetermined set of albums, favorites and sub-folders. For more details, see the section on [Templates](#). Note, you can't create multiple sub-folders using Capture One's dynamic locations feature when creating a catalog, you can only add them if you've saved a hierarchy of folders previously as a template.
6. Click **OK** to save the selections.

Tethered camera support

The scope of tethered support will vary depending on the digital back or camera connected. Live View may not be supported for all cameras. For the latest information on compatibility, please refer to the [Supported Cameras](#) page.

When using an unsupported camera it may still be possible to use Capture One. Please see the [Attach an unsupported camera](#) section for more details.



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Capture Naming and Counters

TETHERED SHOOTING / FILE NAMING / COUNTERS

Capture One imports images directly when working with a tethered camera, and you can choose from and apply a wide range of naming and counter options in the process.

- [Name or rename images](#)
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- [Adding Counters](#)
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Name or rename images

As both the memory card and its internal naming system are bypassed when working tethered, captured files are named on import by the **Next Capture Naming** tool. The default naming format adopts the Session or Catalog name along with a four-digit frame counter. However, you can change this at any time thereafter, using text or tokens or a combination of the two. Note, amending the name in Name field does not rename the document.

For example, if you've organized your Session or Catalog with a series of capture folders, by adopting the Destination Folder Name token you can automatically append images with that folder name as they come into Capture One. When changing the capture folder, the token will automatically update all further images with the new name. Similarly, if you're using Favorites in Sessions or Capture Collections in Catalogs, you can adopt the Collection Name token instead.

When only the original file name is required from the camera, replace the tokens in the **Format** field with only the **Original Filename** token instead. Note the selected Format and Name entries are saved when saving a Session or a Catalog as as Template.

1. Go to the **Next Capture Naming** tool.
2. In the **Name** text field, the Session (or Catalog) name adopted can be altered simply by typing a new name. For this text to be applied as the file name, the **Name** token must be used in the **Format** field.
3. When other naming options are to be used, click on the (...) icon next to the **Format** text field to reveal the **Naming Format** dialog.
4. Select one of the presets or create a new naming format by dragging tokens and, if desired, by adding custom text to the Format text field. Note some tokens have additional format options, click on the disclosure triangle to the right of the token to access and select the alternative configuration.
5. Verify the resultant name and format in the **Sample** field below the **Format** text field. This format will be used in naming subsequent files.
6. Click **OK** to accept the changes.

Find out more about [Naming Files](#), [Creating Naming Presets](#) and [Naming a Sequence when Tethered](#).

An overview of Counters



The **Next Capture Naming** tool offers a number of options for counters. With the default **Camera Counter** token, Capture One keeps track of the specific camera used during tethering. A four-digit counter is adopted, starting at zero the first time the camera is used tethered and thereafter increasing by one with each capture.

The Camera Counter cannot be reset, and continues regardless of the session or catalog in use. Additional Capture Counters are available that allow full control over, however, and you can adopt both the Import Counter and the Capture Counter when working between a tethered camera and another with a memory card. This allows consistent numbering between them.

When only the original file name is required from the camera, replace the tokens in the **Format** field with the **Original Filename** token instead.



Adding Counters

The default **Camera Counter** can be appended or replaced with additional counters. Two **Capture Counters** are available; a 1-6 Digit Counter that allows you to choose the number of leading zeros, and a simple Counter without that option.

1. From the **Next Capture Naming** tool, click on the action menu (...) beside the Format text field. The **Naming Format** dialog opens.
2. Double click on the relevant Counter token, or drag it to the **Format** text field in the Naming Format dialog. In addition, the 1-6 Digit Counter is included in a number of presets available from the dialog.
3. One or more counters may be used at a time.
4. Click **OK** to accept the selections.



Setting Counters for both tethered use and import using a memory card

When you know you will be switching between tethered operation and downloading images from a memory card in the same shoot, the Next Capture Naming tool can integrate the Import Counter in the Import Images dialog (i.e., the Importer) with the Capture Counter. This maintains consistent numbering, however, it is recommended that this option is set before starting tethered capture.

1. Start a new tethered session.
2. From the **Next Capture Naming** tool, click on the action menu (...), located at the top right of the dialog.
3. Select **Use Import Counter**. (Note, there is no need to switch back to the Capture Counter when working with a tethered camera).
4. Click on the action menu (...) beside the Format text field. The **Naming Format** dialog opens.
5. Add the 1-6 Digit Counter token, or the three digit Counter token, by double clicking on or dragging the relevant token to the Format field.
6. When it is time to import from a memory card, connect a card reader and card, or click on the Import icon to open the Import Images dialog.
7. In the **Naming** dialog, adopt the same naming format and counter tokens selected in the **Next Capture Naming** tool.
8. Imported images will adopt the same naming and numbering format as the tethered camera.



Setting a Counter value

You can set a value to start from for the selected counter (i.e., Capture or Import). Note the Camera Counter can not be altered.

1. From the **Next Capture Naming** tool, click on the action menu (...), located at the top right of the tool's title bar. The action menu dialog opens..
2. Click on **Set Capture/Import Counter**. A dialog opens.
3. Add a value to start from. To count down, add a minus (-) sign in-front



- of the value.
4. Click **OK** to accept the settings.

Setting the Counter increment

You can set a value for the selected counter (i.e., Capture or Import) to increase or decrease by. Typically this value will be one, but this option can be useful with multi-camera set-ups.

1. From the **Next Capture Naming** tool, click on the action menu (...), located at the top right of the dialog.
2. Click on **Set Capture/Import Counter Increment**. A dialog opens.
3. Set a value for the desired increment (to count down, minus values can be used).
4. Alternatively, from the main menu, choose **File > Capture Counter > Set Increment...**



Manually decreasing the Counter

The Capture Counter in use can be decreased manually, if necessary. This is useful when you want to re-number an image.

1. From the main menu choose **File > Capture Counter > Decrement Capture Counter**.
2. The counter is decreased by the previously selected increment each time this option is selected.
3. When another image is captured, duplicating the same counter number, the image will **NOT** be overwritten but appended with the set increment instead.

Resetting a Counter

With the exception of the Camera Counter, each counter can be reset from the Next Capture Naming tool or from main menu. Note, you can assign shortcuts to the counter options in **Edit > Edit Keyboard shortcuts...** menu.

1. From the Next Capture Naming tool, click on the action menu (...), located at the top right of the tool's title bar. The tool's action menu opens.
2. Click on **Reset [Type] Counter**.
3. Alternatively, from the main menu, choose **File > Capture Counter > Reset Counter**.
4. The selected counter will be reset. Note the Camera Counter cannot be reset.



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Changing the Capture Location

Whether you're working with a Session or a Catalog, Capture One always stores captured images on the computer rather than the camera's memory card. You can leave the storage destination to Capture One or you can override it, however as a Session and Catalog vary in how they manage images there are some different options available.

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Change the Capture Location when using Sessions

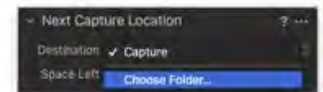
TETHERED SHOOTING / SESSIONS / FOLDERS

You can leave the storage location for captured images to Capture One or you can specify a new folder, at any time.

- Changing where to store captured images
- Capturing images to a network
- Creating multiple capture folders
- Selecting the capture folder from the Next Capture Location tool
- Creating folders from the System Folders browser
- Selecting the capture folder from the System Folders browser
- Creating folders from the Sessions Folders collection
- Creating capture folders from the Finder or File Explorer
- An overview of Session Favorites
- Creating folders directly as Favorites
- Selecting the capture folder from a Favorite
- Deleting a Session Favorite
- Saving a folder structure as a Template

Changing where to store captured images

When left to the default location, Capture One stores the Session folder and its sub-folders in the Pictures/My Pictures directory (Mac/Windows) on the local drive. And, when working tethered, the default destination folder for captured image files is the Capture sub-folder of the Session folder (which is no different when importing images from memory card in a typical session). However, using the **Next Capture Location** tool, you can change the destination folder (i.e., storage location) for captured images at anytime, even during a shoot.



Note, although there are no real restrictions as to where the destination folder can be located, to retain the organization and modularity of the Session, it's recommended that any new capture folders are created within the Session folder, and ideally within the Capture sub-folder. When the destination folder is located outside of the Session folder, on an external drive, for example, that drive must be accessible or on-line at all times in order to continue to work with images stored there. Image variants will NOT be available, if the drive is not accessible.

1. Go to the **Next Capture Location** tool.
2. From the **Destination** fly-out menu select **Choose Folder**.
3. Navigate to the new location and select an existing folder, or choose **New Folder** (optional) and name it, then select **Set as Capture Folder**. Future captures will be stored in that folder.
4. The **Space Left** field indicates the estimated number of captures available (based on the image file size of the last used tethered camera and the capacity of the drive, where the chosen folder was selected or created).

Capturing images to a network

Tethered Sessions are best-utilized on a local computer, capturing and saving the images directly to the computer's internal disk drive. However, a Session will allow the images to be saved directly to a network drive or NAS, using Gigabit Ethernet connectivity. Bear in mind that performance is dependent on the transmission speed of the network and drives. For optimum performance, it

is recommended that the Session database file [Name].cosessiondb file is located on your local computer.

1. Create a new Session on your local computer.
2. Connect to your network drive (or make sure that it's online).
3. From the **Library** tool go to the **System Folders** collection and click-on the arrow beside your network drive or NAS to reveal any pre-made folders. (Dedicated folders can be created beforehand in the usual way with the Finder/Explorer, or from the **Next Capture Location** tool, see below for more details.)
4. Select a suitable folder and Ctrl/right-click to open the context menu and select set as **Capture Folder**.
5. Images captured from the camera are stored in the folder on the network drive.



Creating multiple capture folders

In a tethered Session, the **Next Capture Location** tool can be used to create additional capture folders without leaving the Capture Tool Tab. Multiple capture folders are useful when you have a complex shoot to manage, and want to keep certain groups of images organized. For example, you may be photographing a large number of items for a brochure, capturing multiple images of each and want to organize them separately by item. Rather than storing the whole shoot in the Session's default **Capture** folder, you can store each item in their own capture sub-folder.



Organizing a Session that way allows you to locate and return to a folder with ease should additional images of the item be required later. Not only that but there are some advantages in performance and stability when spreading large quantities of images across multiple folders, rather than storing them all in one single folder.

There are further benefits as well. When capture folders are added as Favorites, they're displayed as a flat list in the Library and images are indexed in the Session database file. This makes them quicker to load, and expands the search and organization capabilities of Smart Albums across each folder.

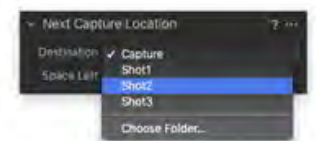
1. Follow steps 1 to 3 from [Change where to store captured files](#), immediately above, to create a new Capture folder. Repeat as necessary.
2. To add sub-folders, navigate to an existing folder (e.g., the Session's default Capture folder) and repeat the process of adding and naming New Folders where necessary.
3. When the folder structure is complete, continue and navigate in the open dialog to your chosen folder and select **Set as Capture Folder**.
4. When capture folders have been set in this way, they can be quickly selected when required from the **Destination** fly-out menu, under Recents.

For more information, see [Select the capture folder from the Next Capture Location tool](#) below.

Selecting the capture folder from the Next Capture Location tool

When you have previously created and selected one or more new capture folders using the **Next Capture Location** tool the folders are remembered so you can switch between them quickly, without navigating away from the Capture Tool Tab to the Library's Session Folders collection or System Folders browser.

1. Go to the **Next Capture Location** tool.
2. From the **Store Files** fly out menu, simply select the capture folder from the list.



- When moving from a capture folder with images, a warning dialog opens asking, **"Would you like to remember the previous Capture Folder as a Favorite?"**. Note this is the default behavior, further options are available from the [Global Application Preferences](#), under General, Favorites.
- Select **"Yes"** when you want to view those images later (i.e., from the Library). Note, when **"No"** is selected, you can still view those images later by navigating to the folder from the System Folders and selecting **Add to Favorites**.
- Future captures will be stored in the selected folder and a new browser session is started.

Creating folders from the System Folders browser

While the Next Capture Location tool can be used to create additional session sub-folders without leaving the Capture Tool Tab (useful if you've started the session already), you can instead create them beforehand or at any time using the Library's System Folders browser.

The following procedure assumes you're creating additional capture folders, but you can add any number of folders and sub-folders to the Session folder there, including Selects, Output and Trash sub-folders, if needed.

- Navigate to the Library and choose from the following:
 - Go to **System Folders**, and then navigate to the session folder and existing capture folder to add sub-folders.
 - Alternatively, go to **Session Folders** and right click on the current **Capture Folder** and select **Show in Library**.
- Select the capture folder, then right click and select **New inside "Capture"** and choose **Folder**. A New collection name dialog opens.
- Name the folder, and click **OK**.
- To create additional capture folders, repeat from step 2.
- To set as the Capture Folder, right click on the new folder and select **Set as Capture Folder** from the menu.



Selecting the capture folder from the System Folders browser

When the System Folders browser in the Library has been used to create sub-folders, you can select the next Capture folder from there without navigating away.

- From the [Library Tool Tab](#), choose from one of the following:
 - Go to **System Folders**, unfold the directory and navigate to the session folder.
 - From the **Session Folders** and right click on the current Capture Folder and select **Show in Library**.
- Select the new folder then right click and select **Set as Capture Folder**.



Creating folders from the Sessions Folders collection

While using the Library's **System Folders** browser to create new folders or sub-folders gives you a good overview of the Session folder hierarchy, it is quicker and simpler to create additional sub-folders for any of the four default Session sub-folders directly from the **Session Folders** collection.

Note that while all newly created folders are displayed in the System Folders browser, they're not shown in the fixed Session Folders collection. Instead a Session Favorite will be created as a shortcut to each system folder or sub-folder, where they're displayed as a flat-list in their own Session Favorites collection and the images are displayed in their own browser session. Read more about [Session Favorites](#) and their benefits.

The following procedure assumes you're creating additional capture folders, but it is the same for each type of Session sub-folder.

- Navigate to the Library in the Library Tool Tab.
- From the **Session Folders** collection, right click on the chosen Session sub-folder (e.g. Capture Folder) and select **Capture Folder** from the menu.



3. A dialog opens, asking "**Would you would like to remember the previous Capture Folder as a Favorite?**". Select "**Yes**", when you have or intend to store captured images there, even temporarily. Otherwise, select "**No**".
4. In either case, a new **Session Favorite** will be added to the Session Favorites collection.
5. Name the new Session Favorite in the corresponding text field. Choose the name carefully as a system sub-folder will be created with the same name (only visible in the System Folders browser).
6. In addition, the new Session Favorite will be automatically selected as the new Capture Folder (indicated by a small camera icon), and all subsequently captured images will be physically stored in the new system sub-folder.
7. To create additional sub-folders, repeat from step 2.
8. To select the Capture Folder, right click on the chosen Session Favorite and select Set as Capture Folder from the menu.

Creating capture folders from the Finder or File Explorer

If you prefer, you can bypass both the **Next Capture Location** and the Library's **Session Folders** collection and **System Folders** browser and create additional Session sub-folders using the Finder (Mac) or File Explorer (Windows) instead. New folders must then be added as a Favorite. Read more about [Session Favorites](#) and their benefits.

1. Create a new folder in the location of your choice (e.g. the current Session's Capture Folder) using the Finder (Mac) or File Explorer (Windows) as normal and name it.
2. Open the Session, if not already, navigate to the **Library** and drag the new folder to the **Session Favorites**. Repeat as necessary.
3. To set as the Capture folder, right click on the chosen Session Favorite and select **Set as Capture Folder**.



An overview of Session Favorites

A Session folder consists four sub-folders, displayed in the Library's Session Folders as a fixed collection of Capture, Selects, Output and Trash folders. These folders and their contents are indexed in the Session database allowing quick loading of their own individual browser session, as well as access to the search and organization capabilities of Smart Albums.

When you add folders using the **Next Capture Location** tool, however, those folders are neither displayed in the fixed **Session Folders** collection, nor are they indexed automatically. Therefore navigating between the folders is limited to the Next Capture Location tool itself and the **System Folders** browser. While this is fine for a typical Session with a few additional folders, more complex Sessions will benefit from each new folder being designated as a **Session Favorite**.

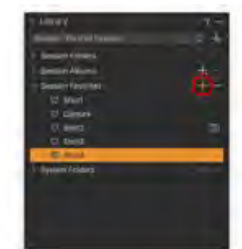
There is no limit to the number of Favorite folders. And every folder assigned as a Favorite is not only indexed in the Session database with all of the attendant benefits, but is also conveniently displayed as a flat-list in the Session Favorites collection dialog. As well as greatly simplifying navigation, from there you can add new folders, rename them, re-organize the list, and easily set the next Capture, Selects, Output or Trash folder, or even remove them.



Creating folders directly as Favorites

Folders can be created directly from the Session Favorites collection. As with the other methods described, it is recommended that any new folders should be added as sub-folders to the Session folders. All folders created from this collection are automatically saved as Favorites, which can be quickly-nominated as the next Capture, Selects, Output or Trash folder, as needed.

1. From the Library Tool Tab, go to **Session Favorites** and click on the (+) button. A Finder/File Explorer (Mac/Windows) dialog opens.
2. Navigate to the desired destination location, preferably within the current Session sub-folder (e.g. the Capture sub-folder), and select **New Folder**. A



- New Folder naming dialog opens.
- Name the folder using a logical or descriptive name (this will be used for the system folder and Session Favorite).
 - Select Add/Select Folder (Mac/Windows). The system folder is created and the Session Favorite is added to the Session Favorites collection dialog in the Library.
 - To create additional sub-folders, repeat from step 1.
 - To select the **Capture Folder**, right click on the chosen Favorite and select **Set as Capture Folder** from the menu.

Selecting the capture folder from a Favorite

After adding each new folder as a Session Favorite in the Library, when you're ready, you can nominate it as the next Capture Folder.

- There are several ways to add folders as Session Favorites, choose from the following:
 - From the **Library Tool Tab**, go to **Session Favorites** and click on the (+) button. A Finder/File Explorer (Mac/Windows) dialog opens. Navigate to the new folder and select **Add/Select Folder** (Mac/Windows).
 - Select the session folder from the System Folders in the Library (as detailed above), then right click and select **Add to Favorites...**
 - Create or locate the folders in the Finder/File Explorer (Mac/Windows) and drag them to the **Sessions Favorites** tool.
- When you want to nominate a Session Favorite as the Capture Folder, select it, then right click and choose **Select as Capture Folder** from the menu.
- When moving from a capture folder that's not already saved as a Favorite, a warning dialog opens from the default preferences setting, asking "**Would you like to remember the previous Capture Folder as a Favorite?**". Select "**Yes**" when you want to view those images later from the Library. Note, when "**No**" is selected, you can still view those images later by navigating to the folder from the System Folders and selecting **Add to Favorites**.
- When the capture folder is selected, all future captured images are stored there and a new browser session is started.



Deleting a Session Favorite

When you no longer require a Session Favorite, it can be safely removed without deleting the original images.

- Select the relevant Session Favorite from the list and either, press the minus (-) button, or right-click and select **Remove from Favorites...** from the menu.
- The Session Favorite is removed, however, the folder and contents (i.e., original images) are not deleted.



Saving a folder structure as a Template

When you want to reuse complex folder structures, and preserve Session favorites, albums, and file naming options from the Next Capture Naming tool, you can save them all when you create a document Template. This can then be adopted when creating a new tethered Session.

- From the main menu, select File > Save as Template... A dialog opens.
- Give the template a relevant name, and select **Save**.
- The template is stored and can be chosen when creating a New Session.



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Change the Capture Location when using Catalogs

TETHERED SHOOTING // FOLDERS

Capture One can manage the storage of captured images inside a Catalog or you can specify a separate folder instead.

- Changing where to store captured images
- Creating multiple capture folders
- Selecting the capture folder from the Next Capture Location tool
- Adding images to Capture Collections
- Saving a folder structure as a Template

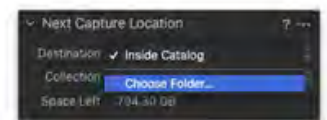
Changing where to store captured images

When using a Catalog for tethered capture, Capture One by default stores the images INSIDE a folder within the Catalog (name.cocatalog) file. Unless the Catalog location has been changed, both the catalog and captured images will be stored in the **Pictures/My Pictures** folder (Mac/Windows) on the local drive.

While this is fine for small shoots, when large volumes of images are expected, you can select or create a separate folder for the captured images anywhere on your system. Changing the storage location is achieved with the Next Capture Location tool and you can change the location when using new or existing Catalogs at anytime, even during a shoot. Images are then referenced to the catalog, in the same way that you would reference any other images using a catalog.

Note, when creating a new Catalog, the previously chosen location for the Catalog will be recalled. Therefore, it's important to carefully select the storage location of the Catalog file during creation, AND then either verify or amend the storage location for the captured images from the **Next Capture Location** tool.

1. Go to the **Next Capture Location** tool.
2. From the **Destination** fly-out menu, select from the following:
 - **Inside Catalog** (default) - selecting this option will store the captured images inside the catalog database file (i.e, the images are "managed"). After selecting this option, follow the guide from step 4.
 - **Choose Folder** - this option allows you to store captured image files in a specified folder (i.e, the images are "referenced") separate from the catalog.
3. When selecting the Choose Folder option, navigate to the new location and select an existing folder, or choose **New Folder** (optional) and name it, then select **Set as Capture Folder**. Future captures will be stored in that folder.
4. Catalogs have a **Collection** option displayed in the Next Capture Location tool. Choose from the following options:
 - **Recent Captures Only** (default) - select if you do NOT want to use this option to group imported images into an existing Capture Collection (i.e., a designated User Collection).
 - **Capture Collection** - select this option to add imported images to the current Capture Collection (i.e., a "virtual" album previously setup as a Capture Collection, denoted by a small camera icon.)



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5. The **Space Left** field indicates the estimated number of captures available (based on the image file size of the last used tethered camera) and the capacity of the drive, where the chosen folder was selected or created.

Creating multiple capture folders

When using a Catalog, the Next Capture Location tool can be used to create multiple capture folders including sub-folders, like it can in a Session. Multiple capture folders are useful when you are photographing many different items during the day and want to keep the images separate. By adopting a logical folder structure, this can help organize the most complex shoots. Smaller folders of images can also aid the allocation of system resources, making the catalog more stable and responsive.

As there's no preset folder structure like there is with a Session, it makes sense to adopt the top-level folder or root folder as a shot-folder, and then create capture folders as sub-folders.

With Catalogs you have a choice of using either physical capture folders or virtual folders as capture collections (i.e., albums, projects and groups). You can even combine the two methods. Either way you'll benefit from the advanced search and organizational capabilities of smart albums, but using collections allows for additional control.

For more information, see the section on using Collections when working tethered, below. Note that complex album and folder structures can be saved as a template, for repeated use.

1. To create a new capture folder, choose from the following:
 - o Follow steps 1 to 3 from [Change where to store captured files](#), immediately above. Repeat as necessary.
 - o Create and name a new folder in the Finder/File Explorer (Mac/Windows).
 - o From the Library, go to **Folders** and click on the (+) icon, or right click on **Catalog** and select **Add Folder...** from the menu.
2. To add sub-folders, navigate to an existing folder and repeat the process of adding and naming New Folders where necessary.
3. When the folder structure is complete, return to the **Next Capture Location** tool and from the **Destination** fly-out, select **Choose Folder...**
4. Navigate to your new folder and select **Set as Capture Folder**.
5. Capture folders may now be selected from the **Destination** fly-out menu when required. For more information, see [Select the capture folder from the Next Capture Location tool](#) below.



Selecting the capture folder from the Next Capture Location tool

When you have previously created one or more new capture folders using the **Next Capture Location** tool, the folders are remembered. This allows you to switch between them quickly, without using the Library.

1. Go to the **Next Capture Location** tool.
2. From the **Destination** fly-out menu, simply select the capture folder from the list.
3. Future captures will be stored in the selected folder and (unlike a Session) the browser session continues to display all the previous captures from the various capture folders.



Adding images to Capture Collections

Whether you've left captured images to be managed inside the catalog or you've specified a separate destination folder, the Next Capture Location tool allows the incoming images to be organized into Capture Collections. Collections are virtual albums; the images aren't physically moved once they're in the destination folder but Capture Collections are a useful organizational asset for complex, high-volume shoots, in much the same way as separate physical Capture Folders are.

One benefit over separate Capture Folders however, is the option to quickly



isolate and display the captures by Collection. A Catalog typically adopts a single browser session, showing all the images across all the Capture Folders. While you can work with the Capture Folders individually from the Library and view only their contents, it's arguably more convenient using Albums. You can also micro-manage the advanced search and organizational capabilities of Smart Albums by limiting them to individual Collections, rather than the entire catalog with its constituent Capture Folders.

Before allocating incoming images to a Capture Collection, you must set-up a Collection first in the Library, then nominate it as a Capture Collection. Setting a series of Collections first allows you to switch between them when you've a complex shoot to organize. When adding Albums, it's a good idea to adopt a descriptive and logical name or naming format.

1. Before the shoot begins in earnest, go to the **Library** tool, located under the Library Tool Tab.
2. From the **User Collections** dialog, click on the + icon and add an Album (only Albums can hold images, though Albums may be further organized using Projects or Groups, or a combination of both). A new Collection naming dialog opens.
3. Name the Album using a logical and descriptive format. (Options for Selecting collection after creation and Add selected images after creation can be ignored).
4. Ctrl-click/right-click (Mac/Windows) on the first Album to be used for incoming images, and select **Set as Capture Collection**. A small camera icon will be displayed next to the Album as a visual reminder.
5. Return to the Capture Tool Tab and go to the Next Capture Location tool.
6. From the Collection drop-down, select **Capture Collection**.
7. Captured images coming into Capture One will be now stored in the selected Destination (Capture) folder and organized into the designated Capture Collection.
8. To move to the next Capture Collection, return to the Library, and repeat from step 4.

Saving a folder structure as a Template

When more than one capture folder is required on a regular basis, you can save the folder structure as well as any created User Collections (ie., albums, smart albums, projects, or groups) as a document Template. This template can then be adopted for each new tethered catalog.

1. From the main menu, select File > Save as Template... A dialog opens.
2. Give the template a relevant name, and select **Save**.
3. The template is stored and can be chosen when creating a New Catalog.



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Apply Capture Adjustments

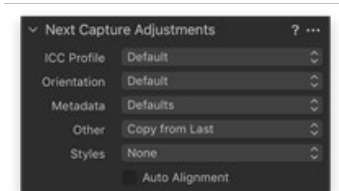
TETHERED SHOOTING / CUSTOMIZATION / ADJUSTMENTS / METADATA / PRESETS / STYLES

Capture One can automatically apply a range of adjustments, including ICC profiles, metadata and image settings, as well as built-in or user-defined presets and styles to captured images to help you work faster.

- Adding adjustments automatically
- Selecting an ICC profile
- Setting the orientation of a capture
- Setting the orientation of a capture (Phase One digital backs only)
- Applying auto-alignment (Phase One digital backs only)
- Adding metadata to captures
- Adding image adjustments to captures
- Applying Styles and Presets
- Selecting the appropriate capture preview

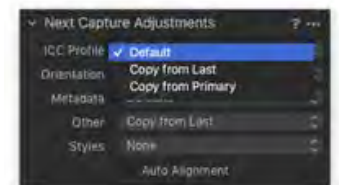
Adding adjustments automatically

Keeping track of adjustments made to images can be difficult to monitor when working in the often pressured environment of a tethered shoot. Instead, you can rely on Capture One to assign an ICC profile and certain image adjustments and styles from the application's extensive range of tools made from a few test shots. The option to add adjustments and styles (presets) from Capture One isn't available at the time of creating a new tethered Session, instead they must be selected from the **Next Capture Adjustments** tool.



Selecting an ICC profile

Capture One automatically recognizes the tethered camera and selects the appropriate ICC profile. However some cameras and digital backs, notably those from Phase One, have multiple ICC profiles associated with them. You can use the Next Capture Adjustments tool to override that selection and adopt either a specific ICC profile from the available list or from an earlier capture if necessary. Note this is a specialized function and, unless a specific profile is required, it should be left to the default setting for that camera model.



1. Capture an image as detailed above.
2. Navigate to **Next Capture Adjustments** tool.
3. From the **ICC Profile** fly-out menu, choose from the following:
 - o **Default** (default) - The default or custom default ICC profile is applied. To override the default selection, simply select the ICC profile from the drop-down list. (Note the ICC profile can also be specified in the Base Characteristics tool, however, unless you have saved the selected profile as a new custom default profile for the camera, you would need to capture an image with the new profile and then select Copy from Last.)
 - o **Copy from Last** - select this option to adopt the ICC profile used for the last capture. When switching between profiles during a tethered session, it can be difficult to keep track. After you've decided on the appropriate profile, use this option to select the profile used for the last capture, or use the **Copy from Primary** option to make a selection from a previous image.
 - o **Copy from Primary** - select this option to adopt the ICC profile

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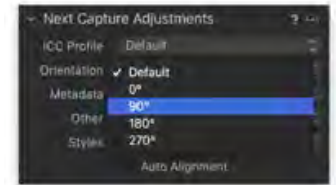
used to capture the primary variant (i.e., the thumbnail selected in the browser with a thick white border, as opposed to any others selected that are displayed with a thin white border).

4. The selection is automatically saved and applied.

Setting the orientation of a capture

Select the appropriate setting from the **Next Capture Adjustments** tool when a camera is unable to determine the appropriate image orientation using its built-in internal sensor. For example, when the camera is overhead and pointing downwards, you can use this option to override the camera's setting. This includes Phase One backs that already have their image orientation set by Capture One. (See more below on camera orientation with Phase One backs).

1. Navigate to **Next Capture Adjustments** tool.
2. From the **Orientation** fly-out menu choose from the following:
 - o **Default** (camera's setting)
 - o **0°**
 - o **90°**
 - o **180°**
 - o **270°**
3. After selecting, the image will be oriented as chosen in the Viewer.
4. When using **Live View** with supported cameras, the orientation of the preview in Capture One's Live View window will match that of the Viewer.



Setting the orientation of a capture (Phase One digital backs only)

When capturing images at angles that are not supported by the digital back's integrated image orientation sensor, for example when the camera is facing down and rotated at the same time, you can use Capture One to set the orientation of captures in the Viewer. This option can also be used with earlier models that do not feature an integrated orientation sensor.

It is important to emphasize that use of Capture One's Orientation setting will not only rotate, but it will also overwrite the orientation information in an image. Hence the new orientation data will be kept in the image file when it is moved to another computer running Capture One.

1. From the main menu, choose Camera > Orientation.
2. Set the desired rotation.
3. Select Auto to rotate the capture automatically (Phase One IQ, P and P+ series backs and H-backs made for 645-format only).



Applying auto-alignment (Phase One digital backs only)

When using a tethered Phase One digital back with an integrated orientation sensor (i.e., Phase One IQ, P and P+ series backs and H-backs made for 645-format only) Capture One can apply automatic rotation and keystone correction.

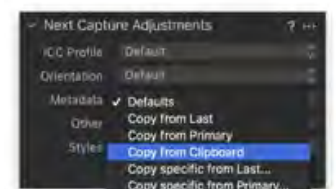
1. Go to the Capture Tool Tab and check mark the **Auto Alignment** option in the Next Capture Adjustments tool.



Adding metadata to captures

You can set up the tethered Session or Catalog to copy certain metadata from image-to-image. This can be useful, for example, when assigning different keywords, instructions or various rights usage terms to images just prior to capture.

1. Select an image in the session or catalog (e.g., the previous capture) and assign metadata where relevant, for example, using the tools located under the **Metadata Tool Tab**.
2. Return to the Capture Tool Tab and go to the **Next Capture Adjustments** tool.

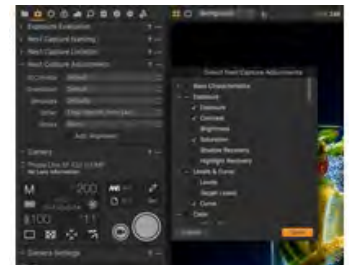


- From the **Metadata** fly-out menu, select from the following options:
 - Defaults** (default) - adds camera EXIF data only. Any metadata already assigned will NOT be copied to the next capture.
 - Copy from Last** - copies all assigned metadata from the last captured image.
 - Copy from Primary** - copies all assigned metadata from the selected Primary variant (the selected image with the heavy white border).
 - Copy from Clipboard** - applies all metadata copied to the Adjustments Clipboard from the last captured image or from the selected Primary variant to the next captured image. This is useful when limiting specific metadata to images.
 - Copy specific from Last** - selecting this option opens a Metadata-only clipboard where Ratings, Color Tags, Keywords and other individual IPTC fields can be selected for copying from the last captured image.
 - Copy specific from Primary** - selecting this option opens a Metadata only clipboard where Ratings, Color Tags, Keywords and other individual IPTC fields can be selected for copying from the selected Primary Variant (the selected image with the heavy white border).
- The selection is automatically saved and applied to all future captures.

Adding image adjustments to captures

The option to add image adjustments isn't available when creating a new tethered Session or Catalog, instead they must be selected from the **Next Capture Adjustments** tool.

- Capture an image and make any required adjustments or edits.
- Navigate to **Next Capture Adjustments** tool.
- From the **All Other** fly-out menu, choose from the following (the ICC profile and any metadata selected above will be applied in each case):
 - Defaults** - applies Capture One's default settings to the next capture (note, any image adjustments made previously will NOT be applied. Custom defaults saved for specific camera models will be applied, however).
 - Copy from Last** (default) - copies adjustment settings that were applied to the last capture. For example, if you made a white balance correction and increased the saturation, every subsequent image would have the same settings applied. This is particularly useful when setting up and fine-tuning adjustments.
 - Copy from Primary** - copies adjustments applied to the selected primary variant (i.e., the selected image in the browser with the thick white border), and applies the same adjustments to the next capture. This is similar to Copy from Last but should be used when the image has multiple adjustments and no longer requires further editing. When the image is in need of further fine-tuning, adopt Copy from Last.
 - Copy from Clipboard** - this option applies all the adjustments copied to the Adjustments Clipboard from the Primary variant to the next captured image. You can use this option like the others applying all the adjustments, or you can use this selectively, when deciding to apply a mix of metadata and image adjustments.
 - Copy specific from Last...** - selecting this option opens the Next Capture Adjustments clipboard where you can select specific image adjustments to copy from the last capture.
 - Copy specific from Primary...** - like Copy specific from Last..., you can use this to copy specific image adjustments applied to the selected Primary variant.
- The selection is automatically saved and the relevant settings applied to all future captures.



Applying Styles and Presets

In the same way that image adjustments can be added, Styles and Presets can be applied to captures.

- From the Next Capture Adjustments tool.

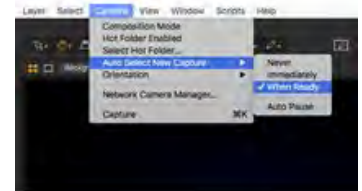
2. Go to the Styles fly-out menu, choose from the following:
 - o **None** (default)
 - o **Stack Styles**
 - o **User Styles**
 - o **Built-in Styles**
 - o **User Presets**
 - o **Built-in Presets**
3. The selection is automatically saved and the relevant settings applied to all future captures.



Selecting the appropriate capture preview

Capture One can control how previews are updated and displayed in the Viewer during tethered capture.

1. From the main menu, select Camera > Auto Select New Capture..., and choose from the following:
 - o **Never** - will show the chosen primary variant. The viewer is not updated with new captures.
 - o **Immediately** - displays a quickly rendered preview while the adjustments are applied. Select this option if working quickly, for example, during a fast-paced fashion shoot.
 - o **When ready** - displays a high quality preview with the adjustments applied. Select this option, for example, when capturing still life, landscapes and architecture. Note this option is generally slower due to the processing required. If the capture rate is high it can be difficult to keep track of individual images, where the subject could be moving rapidly.
 - o **Auto Pause** - pauses the preview of the selected variant to allow inspection, for example, to check focus accuracy. Files can continue to be captured, but the image preview in the main Viewer isn't updated until **Immediately** or **When ready** is selected.
2. The selection is automatically saved and applied.



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Applying Camera Settings

TETHERED SHOOTING / IMAGE CAPTURE / LIVE VIEW / CAMERA SYSTEMS / DIGITAL BACKS

When working tethered using a supported camera model, you can alter a wide range of camera settings, as well as adjust focus, initiate live view and trigger the shutter, all directly from within Capture One.

- Attaching a supported camera
- Attaching an unsupported camera
- Reconnecting a camera
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- Taking test shots in Composition mode
- Adjusting camera settings
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- Adjusting focus (Phase One XF/IQ system camera and certain Sony cameras only)
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Attaching a supported camera

Please refer to the camera's instruction manual for details on the appropriate connection method. For example, the Sony ILCE-7M2 (Alpha a7 II) has four menu options for USB connection (Auto (default), Mass Storage, MTP and PC Remote). In this instance, the camera should be set to PC Remote. When the connection has been established all the camera settings that are selected in Capture One are transferred to the camera, and, similarly, the same settings made directly on the camera are transferred to Capture One. Therefore you can choose between operating the camera remotely, or normally with the software running in the background.



1. Connect a **supported camera** to your computer via a FireWire or a USB cable, as appropriate. When successfully connected, the **Camera Settings** and **Camera** tool are populated with settings data from the camera.
2. When a camera or digital back has been disconnected, do not reconnect it until the Camera tool status changes to **No Camera Attached**.

Attaching an unsupported camera

When using an unsupported camera it may still be possible to use Capture One, as long as you have a compatible capture utility for your specific camera model. However, support for Capture One's tethering tools and features is greatly reduced.

Note access to shared folders required for this option may be restricted when running some third-party capture utilities simultaneously with Capture One, therefore the following guide may not be suitable.



Before connecting a camera model that's directly supported by Capture One, deselect the appropriate Provider/Enabled Tethered Support (Mac/Windows) option in the Preferences first then restart the application. Note a shortcut is provided from the Camera tool's action menu (...).

1. Open the third-party utility, and create and name a destination folder for the captures as you would normally when using it. Note it may be possible to select the Capture Folder of the Capture One Session as the destination folder. If so, captured images will then appear in the Session's Capture Folder and no further set-up is required. When access to another folder is required, please follow from step 2.
2. From Capture One's **Library** tool, under **Sessions Favorites**, click on the adjacent (+) button, navigate to the folder and select **Add**. Alternatively, select the folder from Finder/File Explorer (Mac/Windows), and drag it to the Sessions Favorites. The folder will be added automatically.
3. From Capture One's main menu, or from the **Camera** tool's action menu (...), select **Hot Folder Enabled**. Capture One will monitor this folder for image files.
4. Capture images using the third-party app and images will now appear in the Capture One Viewer.

Reconnecting a camera

In the event of a supported DSLR or digital back being disconnected, do not reconnect it until the Camera Settings tool status changes to **No Camera Attached**. When the warning continues to be displayed after reconnecting, check the following:

1. From the **Camera** tool's action menu (...), select **Preferences...**. A dialog opens.
2. Select **Capture** and confirm the appropriate manufacturer is selected under the **Providers/Enabled Tethered Support** (Mac/Windows) option.
3. Deselect other makes to avoid conflicts.
4. Verify cable lengths meet trade association specifications, or recommendations:
 - o **USB 3.0**: 9 Ft/3m recommended maximum for standard A to B cables. (3 Ft/1m recommended maximum for standard A to micro B). Note longer cables may still be usable providing they do not degrade the electrical characteristics of the signal.
 - o **USB 2.0**: 16 Ft/5m maximum for standard A to B cables. (6 Ft/2m maximum for standard A to micro-B).
 - o **FireWire 800**: 14 Ft/4.5m approx.
Use of a powered repeater or hub is recommended above those lengths.
5. Change USB ports on the computer. Note some ports are optimized for low power devices that may not be suitable for tethering.
6. When the camera or digital back is in sleep mode, it may be enough to wake the camera, otherwise it may be necessary to power the camera off and then back on again.

See below for more trouble-shooting options.

Taking test shots

Before the Session starts in earnest, it is advisable to take some test shots with the camera tethered.

1. Capture an image using one of the following options:
 - o Click on the **Capture** button located in the **Camera** tool, next to the movie camera icon.
 - o Click on the Capture button (**Camera** icon) in the main **Toolbar**. When the camera is ready the camera icon will be highlighted (when the camera is asleep, or detached, the icon will be grayed out). You can use this or the following options to continue capture when making image adjustments in Capture One (i.e., when the Capture Tool Tab is no longer open or easily accessible.)
 - o Press the shutter button on the camera body (or attached remote release).
 - o From the main menu, select Camera > Capture, or use Cmd(⌘)+K



(Mac), Ctrl+K (Windows).

2. The captured image will be imported into Capture One and the image displayed in the main Viewer.
3. Verify the exposure using the **Exposure Evaluation** tool. The exposure meter below the histogram provides an estimation of the exposure value of the captured image. This tool can be useful when adopting an ETTR (expose to the right) strategy.
4. Adjust basic camera settings in the **Camera** tool, or more advanced settings in the **Camera Settings** tool (settings available are dependent upon the support provided by the camera maker), and capture additional images to verify the adjustments.
5. Switch to [composition mode](#) while setting up, if you're concerned about unnecessary culling and using disk space. **Warning!** Only the last shot is saved in the composition mode. See below for more information.

Taking test shots using Live View

Capture One Pro's Live View feature can be used to make test shots, when a supported camera is connected.



1. From the **Camera** tool, click on the **Live View** button (movie camera icon).
2. Capture an image using the **Remote Release** button in the **Camera** tool, or alternatively, click on the Remote Release (camera icon) in the main **Toolbar**.
3. The captured image will be imported into Capture One and the image displayed in the main Viewer.
4. Verify the exposure using the **Exposure Evaluation** tool. The exposure meter below the histogram provides an estimation of the exposure value required. This tool can be useful when adopting an ETTR (expose to the right) strategy.
5. Adjust basic camera settings in the **Camera** tool, or more advanced settings in the **Camera Settings** tool (settings available are dependent upon the support provided by the camera maker), and capture additional images to verify the adjustments.
6. Switch to [composition mode](#) while setting up, if you're concerned about unnecessary culling and using disk space. **Warning!** Only the last shot is saved in the composition mode. See below for more information.

Find out more about tethered capture using [Live View](#).



Taking test shots in Composition mode

This mode allows you to shoot multiple test shots without filling up hard drive space. **Warning!** Each new capture taken in Composition mode overwrites the previous one.

1. Choose Camera > Composition Mode or press the Composition mode icon. Note the Composition mode icon can be added to the toolbar. Go to View > Customize Toolbar..., then drag the Composition Mode icon  to the toolbar.
2. The Composition mode is activated as soon as the  icon is displayed on images in the Viewer.
3. Deselect the Composition mode to keep test shot files.



Adjusting camera settings

When a supported camera is connected, the Camera Settings tool allows you to make a number of adjustments to the camera's settings. The following describes the basic instructions for control of a tethered camera. The range of settings available is dependent on the support for the camera model from the manufacturer. Capture One offers the most comprehensive control over the Phase One XF and IQ3 series digital backs, however a wide range of settings can be accessed on the latest pro-oriented cameras from Canon, Nikon and Sony.

1. In the **Camera Settings** tool, select the desired AE Mode from the fly-out



- menu.
- In this example the Manual exposure mode was chosen, which means it is possible to adjust the **Shutter Speed**, **Aperture** and **EV adj.** (Exposure Value adjustment) settings. Click on the the - / + minus icons to make adjustments. A fly-out menu is offered as an option for Aperture, EV adj., and ISO, but compatibility is dependent on the camera model.
 - Click on the fly-outs to alter **WB** (White Balance), **File Format**, **Drive** (mode), **Metering Mode** and **AF Mode**.
 - The **Camera Settings** tool offers additional functionality depending on the camera model. Click on the disclosure triangles to reveal more settings and then click on the fly-out menus to make selections.

About Phase One RAW file options

Phase One has engineered a very clever RAW file format compression that are named Intelligent Image Quality (IIQ). Two types of compression are used; the completely lossless format **IIQ L**, and a lossy compression with the **IIQ S** (Smart).

The **IIQ L** versions are using a completely lossless compression format that reduces the file size to about 50% and are recommended when the best possible image quality is needed.

- IIQ L 16bit** saves the full 16-bit signal from a CMOS sensor. It is designed for the highest possible image quality when you need to take full advantage of the 15-bit dynamic range from the IQ3 100MP sensor.
- IIQ L** saves a 14-bit version of the RAW file and is using the same completely lossless compression. It provides a smaller file size compared to **IIQ L 16bit**.

(Note that **IIQ L** format is actually 16-bit on CCD sensors).

The lossy version of the RAW format provides a higher compression that provides smaller file sizes and improved workflow:

- IIQ S** is a “Smart” compressed RAW file format, which can be used in almost all applications where it provides a completely sufficient quality – in fact the “Smart” compression is so good that it can be difficult to see a difference. However, there is a very small loss of data, and therefore Phase One does not claim that **IIQ S** is completely lossless, but only what we call “near lossless”.

Adjusting focus (Phase One XF/IQ system camera and certain Sony cameras only)

When working tethered with the Phase One XF camera (requires Firmware Update #3 or later) complete with an IQ digital back and AF lens, the Camera Focus tool allows control over the camera’s autofocus function. The tool works without releasing the shutter, allowing you to concentrate on focusing.

The Camera Focus tool also offers manual control using powered-focus buttons. Manual control is particularly useful when focusing on off-center subjects, and the high-degree of focus precision is essential with high resolution sensors. Focus accuracy can be verified on-screen after capture using the Focus Mask tool.

The tool has two banks of buttons either side of the AF button, labeled Near and Far. The outer triple-arrow buttons are used for large steps, the double-arrow buttons for fine adjustments, while the inner single-arrow buttons provide ultra-fine adjustment. As long as the powered-focus buttons are kept depressed, they’ll continue to focus the lens. As soon as you let go, focus will be locked.

Sony Alpha 9 and Alpha 7 series cameras, complete with a compatible AF lens, only support the AF feature and are not currently compatible with the tool’s manual control option using the powered focus buttons.

Note that the Camera Focus tool is available in Capture One’s Live View window, which offers the advantage of being able to confirm focus on-screen before triggering the shutter. Compatibility with this tool in Live View mode also extends to certain Canon and Nikon camera models. For more information,



please [see here](#).

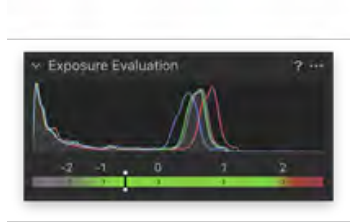
1. From the Capture Inspector, go to the **Camera Focus** tool.
2. Select the camera's AF mode and active AF point as usual, and check the lens is set to AF.
3. Focus approximately on the subject by pressing on the **AF** button in the Camera Focus tool. The AF confirmation light above the button duplicates the camera's built-in AF indicator function.
4. Alternatively, press and hold one of the outer powered-focus buttons (triple-arrow icons) to focus approximately on the subject. The buttons will drive the lens until you let go.
5. Release the shutter and evaluate sharpness using the **Focus Mask** tool.
6. To fine-tune focus, press and hold on the appropriate mid- or inner- focus-control buttons. Capture another image and verify using the Focus Mask tool.

The Camera Focus tool offers a specialized **Focus Assist** feature in Capture One **Cultural Heritage** that will automatically move an iXG camera to achieve a target resolution. Read about the Focus Assist feature [here](#).

Exposure evaluation

Located under the Capture Tool Tab, the Exposure Evaluation tool displays a histogram of the latest captured image. With RAW files the histogram displays the actual raw data with a tone curve applied, as set in the Base Characteristics tool. Note, with the exception of any white balance correction, the histogram will not be updated after any other adjustments have been made as it refers to the original exposure. However, adjustments will be reflected in other histograms, such as those found in the Levels and Curves tools.

An Exposure meter is located directly below the Exposure Evaluation histogram. This meter provides an indication of under/overexposure that is based on a center-weighted measurement, and is displayed with a scale denoting ± 2 EV. This meter is designed to be easily seen at long viewing distances, and to make estimating the exposure easier when shooting tethered in a studio or on location.



Setting white balance

When capturing images you can make a white balance correction on-screen. The correction can be applied to RAW, JPEG and TIFF files.

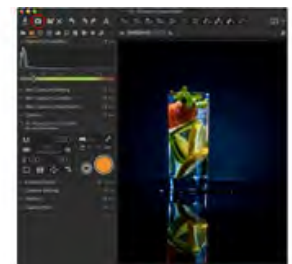
1. Capture an image using your tethered camera.
2. From Capture Tool Tab, click on the White Balance (eyedropper) icon located in the **Camera** tool, or from the Cursor Tool Bar.
3. Set the White Balance with the eyedropper by clicking on a neutral gray area of the image in the Viewer. When a neutral gray area cannot be found, click on a bright white area with detail, if there is one.
4. The adjustment is saved immediately. Additional selections can be made until the required result is achieved. Both the Kelvin (i.e., color temperature) and Tint settings are available in the **White Balance** tool located in the **Color Tool Tab**, when further adjustment is required.



Capturing images

When working tethered, Capture One offers a number of options to release the camera shutter.

1. Capture an image using one of the following options:
 - o Click on the **Capture** button located in the **Camera** tool, next to the movie camera icon.
 - o Click on the **Camera** icon in the main **Toolbar**. When a camera is tethered and powered, the camera icon will be lit (when the camera is asleep, or detached, the icon will be grayed out). You can use this setting or the following options to continue capture when making image adjustments in Capture One (i.e., when the Capture Tool tab is no longer open or accessible.)
 - o Press the shutter button on the camera body (or attached remote release).



- o From the main menu, select Camera > Capture, or use Cmd(⌘)+K (Mac), Ctrl+K (Windows).
2. The captured image will be imported into Capture One, and the image displayed in the main Viewer.

Activating the Image Area/SensorFlex function for Nikon/Leaf

The Image Area and SensorFlex options feature a number of cropping choices for Leaf Aptus II-12 and II-10 digital backs and Nikon DSLRs. Please note that any selection will crop the sensor and information recorded outside the crop cannot be recovered.

1. Go to the **Camera Settings** tool.
2. Click on the disclosure triangle and unfold the first **Photo Shooting/Digital Back** sub menu for Nikon/Leaf cameras.
3. Select an option from the **Image Area** drop down menu.



Using an overlay when shooting tethered

To aid composition when working tethered you can apply an overlay to a live preview or captured image. While you can load a JPEG file as an overlay, it makes the most sense to use a file format with a transparent background layer in order to be able to see the captured images beneath. Capture One's Overlay tool is compatible with the majority of popular file formats that support transparency, such as TIFF, PNG and GIF. In addition, Mac users can also use PSD and PDF files, while Windows users can use BMP files.

1. Start a tethered session or catalog. (Choose File > New Session.../New Catalog...)
2. Set up the camera for tethered photography.
3. Initiate Live View (select Window > Live View), or navigate to the Capture Tool Tab, where appropriate.
4. From the **Overlay** tool, insert a draft file into the overlay window by pressing the File browse (...) icon to select a relevant file, or simply drag and drop a file into the specified area.
5. Select the **Composition mode** option to shoot a test shot.
6. Adjust the draft file and/or the test shot to match each other accordingly.
7. To remove the overlay, click on the action menu (...), and select **Clear Overlay**.



Find out more about the [Overlay tool here](#).

Capturing images wirelessly with Capture Pilot

If you have an Apple iOS device with the Capture Pilot app installed (available free to download from the Apple App store) you can use it to wirelessly control and capture images with the camera tethered to a computer running Capture One. When connecting a Phase One camera system the Capture Pilot app's Camera Control function is automatically enabled, otherwise it is available for a nominal fee as an in-app purchase. Please ensure your camera is compatible before purchasing Camera Control.

1. Connect a supported camera (via a FireWire or USB cable as appropriate) to the computer running Capture One Pro.
2. From the **Capture Pilot** dialog located at the bottom of the Capture Tool Tab, select the **Basic** tab, if not already selected.
3. The **Capture** folder is selected by default, however if you have chosen a new capture folder, click on the **Folder** fly-out menu and select the relevant Capture folder from the list.
4. Click on **Start Image Server**.
5. Open the Capture Pilot app on your iOS device, and select the Session or Catalog name displayed under **Local Servers**. When successfully connected, previously captured images from the capture folder will be displayed.
6. Press the **Camera** icon in the bottom left corner of Capture Pilot display on your iOS device. A floating window will appear on screen.
7. Swipe the on-screen aperture, shutter, ISO or EV dials to make



- adjustments.
- Depending on the camera model, certain parameters, such as File type, Exposure Program and White Balance can be selected from the display. Select the parameter and choose from the menu.
 - Press the on-screen Shutter button to trigger the shutter and expose an image. Image files are saved to a designated Capture One folder on the computer. Note image files are not saved to the iOS device, only previews.

Discover more about [Capture Pilot](#).

Displaying battery status

Capture One can display the remaining battery power of tethered cameras in the **Camera** tool and as an option in the tool bar, giving you a warning in the event of low power (please see below for a list of supported cameras).

- The Battery Status tool is not displayed on the toolbar by default, and so must be added using the customize tool bar option.
- Go to View > Customize Toolbar..., (or mouse over the toolbar, then Ctrl/right-click (Mac/Windows) > customize toolbar...) then drag the Battery Status icon to the toolbar.
- Clicking on the icon will display the remaining power as a percentage. Support varies by the camera attached:
 - DSLR supported models - body power
 - Phase One IQ, P, P+ and Leaf digital backs - back power only.
 - Phase One IQ3 systems - back, XF body, and shared power (when enabled).



Trouble shooting: Digital backs

Advice for digital back users:

- Ensure that your system can supply at least 10W power via FireWire to a **Phase One** digital back. (This is more than most laptops can supply). Alternatively, activate the Force Battery setting on the back. Use the 4.5m Phase One FireWire cable.
- Ensure that your system can supply at least 12W power via FireWire to a **Leaf** or **Mamiya DM** digital back. (This is more than most laptops can supply). Use a Leaf or Mamiya FireWire cable.
- Do not open the shutter on the camera prior to opening the Live View window. Doing so will generate errors on the digital back after closing the Live View window. The recommended procedure for using live view is to first open the Live View window, then open the shutter on the camera, use live view as desired, when done, close the shutter on the camera, and close the Live View window.
- For Leaf Backs and Mamiya DM systems, the camera body must be selected in the application preferences before connecting the back.
- For Leaf Backs and Mamiya DM systems, in the case of a communication error during firmware upload, please wait 10 minutes before disconnecting the FireWire cable.
- Leaf Aptus II 8 only works with black and white live view.



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Working with an Overlay^{Pro}

OVERLAY / CROP / COMPOSITION

Use the Overlay tool when working tethered to help capture images for a specific layout or design. The Overlay tool can also be used when working with Live View.

- [An overview of the Overlay tool](#)
- [Using an overlay](#)
- [Adjusting the position using the Overlay Pan tool](#)

An overview of the Overlay tool

The Overlay tool is an advanced composition aid and is commonly used when [shooting tethered](#). This function is often used to capture an image that will match a specific layout. For example, an image could be made for a magazine cover specifically to take into account the space required for a nameplate or masthead and cover lines. The tool is located by default in the Capture Tool Tab, and it is also available to use in the Live View Tool Tab when working with Live View (where supported).

While you can load a JPEG file as an overlay, it makes the most sense to use a file format with a transparent background layer in order to be able to see the captured images beneath. Capture One's Overlay tool is compatible with the majority of popular file formats that support transparency, such as TIFF, PNG and GIF. In addition, Mac users can also use PSD and PDF files, while Windows users can use BMP files. Transparency support will ensure that the overlay (e.g., the magazine headline and copy, seen in the examples) can be displayed clearly over the image in the Viewer.



Using an overlay

1. Go to the Overlay tool in the [Capture Tool Tab](#) or, when using Live View, the [Live View Tool Tab](#) in the Live View dialog.
2. Drag and drop a suitable transparency file (e.g., with the magazine nameplate and cover lines, or headline and copy, etc.) into the **Overlay** tool's **Drop image here** field.
3. Alternatively, to browse for the file using the Finder/Explorer, click-on the **File** Action (...) icon, located below.
4. To confirm you have selected the right file (and path), check mark the **Show** box.
5. Alter the **Opacity**, **Scale** and **Horizontal/Vertical** placement sliders as needed.



Adjusting the position using the Overlay Pan tool

The Move Overlay Pan tool (circled) can be used instead of the Horizontal/Vertical placement sliders to adjust the position of the overlay file.

1. Select the Move Overlay Pan tool (hand-icon), located below right of the image field in the Overlay tool. The icon will turn orange once active.
2. Click on the overlay in the Viewer and drag the transparency file into an appropriate position while observing the effect.
3. Alter the Opacity, Scale sliders as needed.





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Working in Live View Mode^{Pro}

TETHERED SHOOTING / IMAGE CAPTURE / LIVE VIEW / CAMERA SYSTEMS

Accelerate your workflow with Live View for supported medium format and certain Canon, Nikon and Sony cameras.

Live View Workspace

Capture One has a dedicated workspace with its own set of tools for controlling a tethered camera while viewing the image directly off the camera's sensor. Find out how these tools can benefit your workflow.

Focus Assistance and Capture

Capture One's unique Live View mode enables you to check composition, control focusing, and capture the image, all from within a dedicated workspace. Note compatibility with the Live View mode requires a supported camera model.

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Live View Workspace

Capture One has a dedicated workspace with its own set of tools for controlling a tethered camera while viewing the image directly off the camera's sensor. Find out how these tools can benefit your workflow.

- Overview of live view interface
- Starting Live View
- Toolbar
- Cursor tools
- Tool Tabs
- Live View Navigator
- Live View Controls
- Camera Focus
- Live View Info
- Live View Focus Meter (LVFM)
- Overlay
- Adding tabs and tools

Overview of live view interface

When a compatible camera is connected for tethered capture, starting Capture One Pro's Live View mode opens a new window with a dedicated workspace that's separate from the main application. The workspace consists of a high-quality viewer, displaying the live view image directly off the camera's sensor, as well as a mix of tools from the main application. In addition, there are several dedicated tools to help accelerate your workflow.

A supported camera can be controlled directly, allowing you to not only adjust a number of exposure settings, but also initiate autofocus and, in some cases, manually adjust the point of focus in small steps. Images are captured directly to the computer, however, as control over focusing is separate from capture, the Live View mode allows you to concentrate on achieving accurate focus without distraction.

When space is at a premium the new workspace can be positioned in front of the main application's workspace or moved (and resized) to a second monitor if desired. Alternatively, the main application's workspace can be minimized, but not closed. In addition to the workspace's high-quality viewer, the Live View window consists of three main user interface elements; the Toolbar, Cursor Tools, and Tool Tabs.

Starting Live View

Whether you've connected your camera for tethering or not (and you just want to take a look), simply navigate to the Camera inspector (in the default workspace), go to the Camera tool and click on the Live View button (movie camera icon). Alternatively, from the main menu > Window > Live View. The Live View window opens. This window can be moved to a second monitor in a dual-display setup, if desired.



Toolbar

The default toolbar offers a wide range of useful tools and it can be customized with a number of additional items. You can also rearrange the order in which they're displayed. Click on the Hammer and Wrench icon or click anywhere in the toolbar area and press ctrl/right-click and select Customize Toolbar...

Play/Pause: Resume Live View if paused. Adjust focus while viewing the focus

window. When the focus has been suitably adjusted, press the pause button. Note a Play/Pause option is also available on-screen in the Live View window.
Turn Overlay On: Toggle an Overlay on or off independently of the Overlay tool's Show option.

Alignment Function: Toggle Grids and Guide lines on or off (depending on preferences). Guide lines can be adjusted on screen by click and dragging.

RGB: Toggle between a color or mono Live View image stream. Switch to mono when color is distracting during composition or when color fringing, such as longitudinal chromatic aberration, is interfering with focusing. Note that a mono image may appear grainier compared to a color image, however, this does affect the captured image.

DOF/EPV: Select to stop down the lens to the taking aperture and disable auto-gained Live View stream. Note behavior is highly dependant on camera model and exposure mode in use.

Preferences: Shortcut to preferences. Live View duration, certain camera model configuration settings and grids and guides can be altered from the Capture and Crop tabs, respectively.

Customize: Press the Hammer and Wrench icon to customize the Live View toolbar.



Cursor tools

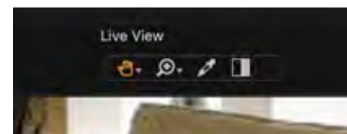
Like the main application window, the Live View toolbar displays a number of cursor tools, with some additional functions such as a Move Overlay option to the Pan cursor as well as a Loupe tool and appropriate settings as an option to the Zoom cursor.

Pan Cursor Tool: This tool enables to pan around the image when magnified. You can zoom to 100% by double clicking and then you can pan the cropped area around the image.

Zoom Cursor Tool: Zoom in by selecting the clicking on a specific part of an image. Press alt-click on the image to zoom out.

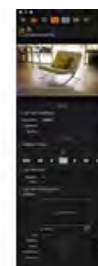
White Balance Cursor Tool: Select the pipette and set a new White Balance by clicking on a white or gray area in the Live View window. This White Balance setting only applies to the Live View window image and not the captured image.

Focus Meter Tool: Initiate the Focus Meter tool using this icon.



Tool Tabs

The availability of certain tools and functions are dependent on the attached camera model. When tools or options are grayed out, that particular feature or function is not currently supported.



Live View Navigator

Refresh: Refresh the navigation window according to the live view image.

Frame Rate: Shows the actual frame rate of the Live View window. With certain models you can select the frame rate that offers the most convenient image for composition and focusing. Note this option is dependent on the camera model in use.



Live View Controls

The Live View Controls tool offers a number of options to manage the Live View image. In addition, the DOF/EPV button can be used to check exposure and, in some cases, check the depth of field and even confirm focus accuracy at the taking aperture.

Orientation: Click on the Orientation fly-out menu and select between default, 0, 90, 180 and 270 degrees, to rotate the Live View image accordingly. For example, if the camera is on its side for a vertical capture, you can set the Live View image in the Viewer to display the image in the same vertical orientation.

Lightness: Adjust the lightness slider if the Live View image seems too dark or too bright for the ambient lighting conditions. If grayed out, then this option is not supported when using the attached camera.

Quality: Adjusts the Live View image quality. Higher quality levels will produce a slower frame-rate. If the image quality remains low, the issue may be due to computer resources; either reduce the size of the viewer or reduce zooming levels. If grayed out, then this option is not supported when using the attached camera.

Start/Pause Live View: Press this button to resume the Live View image stream, or to pause the stream at any time. The Live View image stream is typically initiated upon opening of the Live View window and, using the default setting, the stream will pause after 30 seconds. (Note the image stream duration can be extended up to 20 minutes in the preferences. From the main menu, Capture One/Edit > Preferences. Go to the Capture tab, Live Preview and select from the fly-out menu.)

DOF (Canon)/EPV (Nikon): Depending on the model and exposure settings, selecting this will stop the lens down to the taking aperture and display the expected exposure result with the current settings.



Camera Focus

Long press on the arrow buttons to remotely adjust focus. Long-press the central AF button to initiate autofocus. An AF indicator light above the button typically replicates the camera's built-in AF indicator. Note, this tool is only compatible with the Phase One XF system camera and certain supported Canon, Nikon and Sony cameras using AF lenses. See [here](#) for more information.



Live View Info

When a Phase One back is attached, orientation data is displayed in the two fields. Images are displayed automatically oriented in the Viewer which is determined from the Camera menu > Orientation setting. The displayed data serves as a visual reminder, and is useful if the camera is not visible from where you're located.



Live View Focus Meter (LVFM)

A visual aid to achieve optimal focus when manually adjusting the focus ring of a lens. This feature is compatible with Phase One XF/645DF+ cameras and IQ3/2 series backs and certain supported Canon, Nikon and Sony models. [See here for more information.](#)

Overlay

An overlay can help guide image composition using the live view image. [See here for more information.](#)

Adding tabs and tools

More tools can be added to the Live View workspace that were previously only available from the main application's Capture inspector. You can add these tools to the existing tool tabs, or add a new custom tool tab.

1. Select the tool tab you want to add the tools to.
2. Ctrl-click/Right-click (macOS/Windows) on the tool tab to reveal the tool tab/tool menu.
3. To add a custom tool tab first, select **Add Tool Tab** and then click-on **Custom Tool Tab... A New Custom Tool Tab** dialog opens.
4. Add a relevant name for the tab in the **Specify Tab Name** field.
5. From the **Icon** drop-down menu, select an icon from the list and click-on the **Add Tab** button.
6. From the same the tool tab/tool menu, select **Add Tool**, and click-on the relevant tools from the drop-down list. The following additional tools are available:
 - o Exposure Evaluation
 - o Next Capture Adjustments
 - o Next Capture Location
 - o Next Capture Naming

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[Capture One](#) › [Tethered Capture](#) › [Live View Mode](#) › Focus Assistance and Capture

Focus Assistance and Capture

Capture One's unique Live View mode enables you to check composition, control focusing, and capture the image, all from within a dedicated workspace. Note compatibility with the Live View mode requires a supported camera model.

- [An overview of the workflow](#)
- [Adjusting focus using the camera's AF system](#)
- [Focusing manually with assistance from the Focus Meter](#)
- [Composing in real time using an overlay](#)
- [Capturing images](#)

An overview of the workflow

Live View is created to work in a studio environment and is fully-integrated into Capture One Pro. However, the live view image can be overexposed beyond the parameters of the adjustment sliders if Live View is used outdoors or if a camera is pointing directly towards an overly bright light-source.

1. Open Capture One Pro and start a tethered Session or Catalog (e.g., choose File>New Session...).
2. Connect a compatible camera via FireWire or USB. (Capture One will automatically recognize the camera or digital back).
3. Activate live view by pressing the movie camera icon in the **Camera** tool, or choose Window>Live View. The Live View window will open.
4. From the Live View Tool Tab (movie camera icon), if not already selected, go to the **Live View Controls** tool and, if necessary, from the **Orientation** tool, adjust the orientation of the live view image to match the orientation of the camera.
5. Adjust Lightness and Quality as desired to set brightness and sharpness of the live view image. To further assist with image assessment, click on the RGB icon in the main Tool bar, to switch between a color or a monochrome live view image. (This does not affect the captured image.)
6. To adjust the camera settings, select the Capture Tool Tab (camera icon), located top left beneath the the main toolbar of the Live View window.
7. From the **Camera Settings** or **Camera** tools, set the aperture and shutter speed. Set the shutter to BULB or TIME function with a supported medium format camera or technical camera and Phase One digital back. (The live view image will be displayed as soon as the shutter is opened).
8. Set white balance using the White Balance picker. (Note WB is only to aid the live view image.)
9. From the **Overlay** tool add a suitable file to, for example, capture a comparison image, or to help composition in accordance with a specific layout.
10. Adjust the composition and set the focus distance (adjust using the camera's AF system in conjunction with the **Camera Focus** control buttons, or manually with the **Focus Meter**, where supported).
11. Press the capture button located in the **Camera** tool. With certain medium format cameras and digital backs, the Live View window must be closed before setting the shutter speed to correctly expose an image.



Adjusting focus using the camera's AF system

When using Live View the Camera Focus tool can be used not only to control autofocus (AF) independently of the shutter release but also to override the

point of focus using manually controlled powered-focus buttons.

The Camera Focus tool located in the Live View workspace is essentially the same tool found in the main application's Capture tool tab, however when the camera is operating in live view mode there's support from a wider range of camera models. Note that, the camera must be a supported model and the lens must be an AF type and feature a native mount.

The Phase One XF camera (with Firmware Update #3 or later installed) and IQ digital back complete with a Phase One FP or Schneider Kreuznach LS AF lens supports all of the tool's features, as do a wide range of semi-pro and pro-oriented Canon and Nikon models. (Note that Canon cameras do not support the AF indicator.) A number of Sony camera models are also compatible. However, the Sony models support only the autofocus option and AF confirmation indicator, and are not compatible with the powered-focus control function.

There are six powered-focus buttons in total arranged in two groups; labeled Near and Far. Pressing and holding one of the buttons continues to drive the focus motor of an AF lens until the button is released. The focus remains locked until pressing either the tool's AF button, or another of the powered-focus buttons.

The outer buttons (triple-arrow icons) adjust the lens in large steps and can be used instead of the AF button to achieve an approximate distance setting. The mid-buttons (double-arrow icons) offer fine adjustment, while the inner buttons (single-arrow icons) allow ultra-fine adjustment. This allows a very high degree of control over focus when using live view, and is particularly useful, for example, when the subject is located off-center.

1. From the main menu select Window > Live View, or from the **Capture Tool Tab**, click on the Live View (movie camera) icon in the **Camera** tool to open the Live View window. Note when a supported camera is attached and ready for tethered capture, the Camera Focus tool's AF and powered-focus buttons will be enabled (colored white). When one or the other is grayed out, then that feature is unsupported. If both are grayed out and the features are supported, check the connection.
2. Select the camera's AF mode and active AF point as usual and check the lens is set to AF.
3. Focus approximately on the subject by pressing on the **AF** button in the **Camera Focus** tool. Alternatively, press and hold one of the outer powered-focus buttons (triple-arrow icons) to focus roughly on the subject. The buttons will drive the lens until you let go. The image in the Live View window is updated during focusing. An AF indicator light above the button duplicates the function of the camera's built-in AF indicator. (Note Canon cameras do not support the AF indicator.)
4. To fine-tune focus, press and hold on the appropriate mid- or inner- focus-control buttons, while observing the image for focus in Capture One's Live View Window.
5. Release the button when focus has been achieved. The setting will be locked.

Focusing manually with assistance from the Focus Meter

Capture One's Live View Focus Meter (LVFM) tool provides visual confirmation of the optimal point of focus when manually focusing with the Phase One XF/645DF+ cameras and IQ3/2 series backs. The LVFM is also compatible with a number of Canon, Nikon and Sony models that adopt contrast-detection AF, and it has some additional capability with the Phase One iXG Camera System (see here for more details).

The tool has a horizontal white-colored main-meter with a secondary orange-colored fine-focus meter that's used to verify the optimum point of focus. By placing a focus-area in the viewer Capture One measures the contrast and provides data to the main and secondary meters. A fine-focus meter is also embedded within the frame of each focus-area, allowing you to concentrate on



the image in the viewer rather than the tool itself. Up to three focus-areas can be set in the viewer, each one contributing data to a separate meter. Which one you use to determine the point of focus is up to you, however you can use the others to check focus at other points of interest in the viewer.

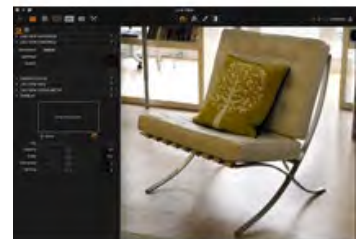
Although the LVFM provides high precision it is recommended for use with static subjects only and that the camera is used on a stable support (e.g., a sturdy tripod, studio-stand or copy stand). A high-quality, ideally double-shielded interface cable (FireWire 800 or USB 3.0, as necessary) is essential for reliable operation. If in doubt, use the cable supplied with the camera, or refer to the camera manufacturer's user manual.

1. Click on the **Live View** (movie camera) icon in the **Camera** tool to open the Live View window.
2. Select the camera's manual focus mode and focus approximately on the subject using the focus ring of the lens.
3. Activate the Focus Meter tool by clicking on the Focus Meter icon in the **Live View Focus Meter** tool, or from Tool bar.
4. To position a focus-area, click on the point of interest or subject in the viewer of the Live View window. To check focus simultaneously at different points within the frame, up to three focus-areas can be set. Attempting to set a fourth will prompt a message to close or move one of the existing focus-areas.
5. Adjust the position of the focus-area on the subject by either, clicking inside the focus area's frame and dragging, or by clicking and dragging focus-area's top-bar.
6. For improved accuracy, focus areas may be resized to fit the subject by grabbing the black frame at the side, bottom or corner. (To delete a focus area, click on the X icon in the top right corner.)
7. Each focus-area has a built-in fine-focus meter within its frame as well as a corresponding horizontal focus meter, located in the LVFM tool. Like others, this tool can be removed from the tool bar, repositioned and resized for convenience.
8. Slowly turn the lens' focus ring while observing the meter carefully. The main (white colored) meter peaks at, or occasionally close to, optimal focus, leaving an orange-colored marker at the high point. Located in the main meter's frame as well as the focus-area's frame, a secondary orange-colored fine-focus meter is used to verify the measurement. Please avoid zooming in or out, resizing, moving a focus-area or covering the lens at this stage, as the meter will be reset.
9. Continue to adjust the lens' focusing ring with care, until the secondary fine-focus meters reach their maximum point. When optimal focus is achieved, the outer orange fine-focus meters enclose the both the frame of the focus-area and the white bar of the main meter, which then changes color to orange. Note, under certain (i.e. low-contrast) conditions, the main meter's bar will not change color, however, best-possible focus is achieved when both bars no longer continue to rise.
10. If both bars fall, the point of maximum focus has passed. Please return to step 8 and repeat.

Composing in real time using an overlay

The Live View window includes an Overlay tool like that found in the main Capture One application. It works in exactly the same way, allowing you to superimpose a previously made transparency file of a layout, for example of a magazine front cover, on to the live view image. Not only does this help you with your composition in real time but if the camera is ready you can capture the image directly from within Capture One. Find out more information on working with an [Overlay](#).

1. Set up the camera for tethered photography.
2. Start a tethered Session or Catalog. (Choose File > New Session..., or File > New Catalog...).
3. Start **Live View**.
4. From the Overlay tool, insert a file with a transparent background layer by dragging and dropping it into the **Overlay** window, or by navigating to it after pressing the File action button (... icon) to locate and select it.
5. Adjust the subject according to the layout of the chosen file. Alternatively, adjust the position of the file to your subject using the sliders or select the Move Overlay (hand icon) and adjust the overlay in the Viewer.



Capturing images

When working tethered in Live View mode, Capture One offers a number of options to capture the image.

1. Capture an image using one of the following options:
 - o Click on the **Capture** button located in the **Camera** tool, next to the movie camera icon.
 - o Click on the **Camera** icon in the main application's [Toolbar](#). When a camera is tethered and powered, the camera icon will be lit (when the camera is asleep, or detached, the icon will be grayed out). You can use this setting or the following options to continue capture when making image adjustments in Capture One (i.e., when the Capture Tool tab is no longer open or accessible.)
 - o Press the shutter button on the camera body (or attached remote release).
 - o From the app's main menu, select Camera > Capture, or use Cmd(⌘)+K (Mac), Ctrl+K (Windows).
2. The captured image will be saved to the designated folder by Capture One, and the image displayed in the main application's Viewer.



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Capture Pilot (™) Pro

CAPTURE PILOT / THUMBNAILS / VIEWING PHOTOS

This section describes how to access images remotely on an iOS device for browsing and rating using the Capture Pilot app, available as a free download from the Apple App store. In addition, remote capture is offered using the optionally available Camera Control feature of the Capture Pilot app. Camera Control is free to IQ3/2 digital back users and, for a nominal fee, an in-app purchase for many other supported DSLRs.

Remote Browsing with the Capture Pilot App

The Capture Pilot app, available from the Apple App Store, lets you present, rate and capture photos on an iPad, iPhone and iPod touch directly from Capture One Pro.

Viewing with a Web Browser

When connected to the internet, Capture One Pro's built-in server feature in the Capture Pilot tool allows you to view images using a web browser from anywhere in the world.

Remote Shooting with Capture Pilot App

Remote capture and exposure control is possible with certain Phase One, Mamiya, Leaf, Canon and Nikon models when tethered to a Mac or Windows computer running Capture One Pro and Capture Pilot's in-app Camera Control option.

Geotagging with Phase One IQ3/2 digital backs

The Capture Pilot app enables the syncing of location data wirelessly with Phase One IQ3/2 series camera systems, either in realtime during capture or later when back in the studio.

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Remote Browsing with the Capture Pilot App

The Capture Pilot app, available from the Apple App Store, lets you present, rate and capture photos on an iPad, iPhone and iPod touch directly from Capture One Pro.

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About Capture Pilot

The Capture Pilot tool enables you and your clients to wirelessly view images directly from Capture One using either the Capture Pilot app for Apple iOS devices, or any internet-enabled device with a web browser.

Not only does this allow other members of the assembled team or crew to separately browse, zoom and rate and even adjust the white balance of the images on their hand-held device as they're captured, but you can also share these image previews with anyone with an email address and web-browser on any device. They can even rate and color tag the images, giving you their approval from their phone or laptop, located anywhere in the world.

When using the Capture Pilot iOS app with the Camera Control feature, you can also wirelessly adjust and trigger a Phase One XF or 645 DF+ camera and IQ3/2 digital back when it's tethered to a computer running Capture One Pro. All the important capture settings such as aperture value, shutter speed, ISO, metering mode and file formats are displayed and controlled from an easy to use panel in the app.

Camera models from Canon, Nikon and Sony are also compatible with Camera Control, however, with third-party makers this feature is an in-app purchase.

The [Capture Pilot](#) app itself is available free of charge from the Apple App store. Please log in to your iTunes account and download it on your chosen device, where it will be installed automatically.

Connect your iOS device to Capture One

The following description assumes that the computer running Capture One Pro is connected (either wired or wirelessly) to a Wi-Fi network, and that the iOS device is also connected to that same Wi-Fi network.

1. Navigate to the **Capture Pilot** tool at the bottom of the [Capture Tool Tab](#) in Capture One Pro.
2. Select the **Basic** tab and add a name in the **Server Name** text field, or leave to the default document name.
3. From the **Folder** fly-out menu, select the folder of images you would like to share with anyone in Wi-Fi range running the Capture Pilot app on an iOS



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- device.
4. In the **Password** text field, add a password when you want to restrict access.
 5. From the **Publish To** fly-out, select Mobile or Mobile and Web. (When selecting Mobile and Web, decide whether you want to provide access to others using a computer or smart device with a browser. See Connect a web browser to Capture One for more details).
 6. Click on **Start Image Server**.
 7. Now open the Capture Pilot app on your iOS device.
 8. Select your chosen server name from the **Server List**. If a password was set in step 4, you will be prompted for it.
 9. Images will now be displayed on your iOS device.

Video tutorial: Setting up Capture Pilot

This video will demonstrate how you setup Capture Pilot by creating a computer to computer network with a MacBook and an iPad.



Alternative connection (Mac)

When you want to view images on your iOS device but don't have access to the Wi-Fi network that the Mac running Capture One Pro uses to serve the images from, you can use what's called internet sharing instead. This could be useful, for example, if you're a client visiting a studio and don't have the SSID or Password of the Wi-Fi network there. Some preconditions to this alternative connection must first be met, however. The Mac serving the images from Capture One Pro must access the Wi-Fi network using ethernet, and must also have built-in Wi-Fi for it to share a connection with the iOS device (or computer or smart device using the web-browser function).

1. On your Mac, go to Systems Preferences > Sharing, and highlight the **Internet Sharing** option (but don't enable with a check-mark yet).
2. Go to **Share your connection from:** select **Ethernet** from the drop down menu.
3. In the **To computers using:** panel, enable **Wi-Fi** with a check mark.
4. When you want to secure the network, click on the **Wi-Fi Options** button (below the panel). A Configure an internet-sharing network dialog opens.
5. From **Security**, select WPA2 Personal and add a password, verify and select OK, or Cancel to dismiss the dialog and start over.
6. Now enable the **Internet Sharing** option from step 1 and press **Start**. (Note Wi-Fi must be turned on.)
7. On your iOS device, click on the Settings icon and select **Wi-Fi**.
8. Choose the applicable Network (SSID), and type in the Password from step 4, if one was set.
9. Open the Capture Pilot app on your iOS device, and wait for the Local Servers list to populate.
10. From the Local Servers list, click on the Server Name to connect to the session served by Capture One Pro.

Creating a computer to iOS network (Mac)

If you want to share the session without using an existing local area network, you can set up a temporary Wi-Fi connection between your Mac running Capture One Pro and an iOS device. This is sometimes referred to as an ad hoc connection. You can use this solution when you're on location and there's no network available, for example. The following description presumes that Wi-Fi is turned on already and the status icon is displayed in the menu bar.

1. On your Mac, go to the menu bar, click on the Wi-Fi status icon and select **Create Network...** from the menu.
2. Enter a meaningful name, and choose a channel for the network in the appropriate fields.



3. From your iOS device, click on the Settings (icon), select Wi-Fi and under Devices select the Network Name from step 2.
4. Open the Capture Pilot app on your iOS device and from the Local Servers list, click on the Server Name to connect to the session served by Capture One Pro.
5. When finished, click on the Wi-Fi status icon and select Disconnect [from Network Name].

Video tutorial: Capture Pilot

Learn about Capture Pilot in this video tutorial. (Click on the image to the right). You can use Capture One Pro with Capture Pilot to wirelessly and remotely view, zoom, rate, tag, and pan high resolution DSLR and medium format RAW, JPEG and TIFF images while you shoot.



Browse images in a folder on your iOS device

1. The thumbnail size can be altered by selecting from the S, M and L options, in the bottom right corner of the screen.
2. Tap any thumbnail to view a full screen image.
3. Zoom in and out of the image by pinching the screen and navigate around to inspect close-up detail up to 200%.
4. Touch-scroll to the next image.
5. Click the Back arrow icon in the top left corner to return to the previous view (e.g., Thumbnail view or Server list).



Browse images using the controls (iOS device)

1. Click the forward arrow to inspect next image or backward to inspect previous image.
2. To pause the current image on screen when shooting tethered, press the pause icon (when enabled, the icon is orange-colored). To view images on the screen as they are being captured, press the pause icon again (icon turns white, when disabled).
3. Images that are edited in Capture One Pro will automatically display any amendments in Capture Pilot. (For example, an image that has been converted to Black and White in Capture One Pro will also be displayed as Black and White in the Capture Pilot iOS app).

Add Color tag and Star ratings (iOS device)

1. Go to Capture One Pro and select the Capture Tool Tab
2. From the Capture Pilot tool, select the **Mobile** tab.
3. Check-mark or deselect the Rate images and/or Color tag images option boxes to activate or disable this function.
4. Press the Star icon in the bottom toolbar of the Capture Pilot display on an iOS device. A window will appear on the screen where color and star ratings can be applied.



Displaying a histogram

You can superimpose a useful exposure histogram for individual images. It details the ISO aperture and shutter speeds used during capture. You can move it around the screen if it gets in the way, and by tapping on it, you'll be presented with additional EXIF camera data.

1. Click on an image in the browser to display the image in the viewer.
2. Press the Histogram icon in the foot-bar at the bottom of the screen. The histogram will be displayed over the image.
3. Click and drag into a new position, if it obscures some part of the image.
4. Tap on the histogram to reveal a panel with additional information such as the camera and lens model, file format and in-camera white balance setting used.



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Viewing with a Web Browser

When connected to the internet, Capture One Pro's built-in server feature in the Capture Pilot tool allows you to view images using a web browser from anywhere in the world.

- Overview of Capture Pilot web function
- Web viewing mode: Capture Pilot classic
- Connect to a web browser
- Browse images using the controls in a web browser
- Add Color tag and Star ratings from a web browser
- Web viewing modes: Fullscreen

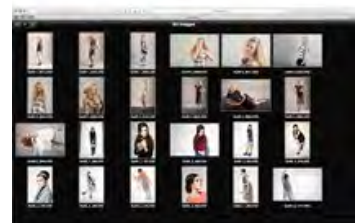
Overview of Capture Pilot web function

The web browser function offers an additional means of viewing and rating images for photographers or clients. This function means anyone can access Capture One Pro's Capture Pilot tool, as long as they have a computer or smart device with a web browser and an internet connection. This avoids the 'monitor huddle' that's common with studio shoots. You can also use it to view shooting sessions from remote locations, via the internet.



Web viewing mode: Capture Pilot classic

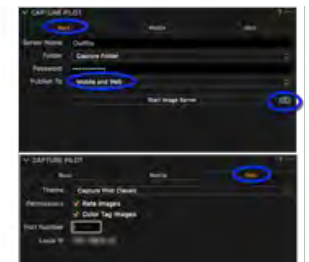
Capture Pilot Classic is, in essence, a contact sheet of thumbnail images. Newly captured images will appear as soon as they are shot when shooting tethered. Thumbnail size can be adjusted by pressing the S, M and L letters in the top left corner of the screen.



Connect to a web browser

The web browser feature is designed to work on a local network (i.e. the computer running Capture One Pro is connected to the internet).

1. Go to the Capture Pilot tool at the bottom of the **Capture Tool Tab** in Capture One Pro.
2. Select the **Basic** tab. Ensure either **Mobile and Web** or **Web Browser** is selected from the **Publish To** fly-out menu.
3. Select the **Web** tab, choose a theme from the drop down menu.
4. Select the Rate Images and Color Tag Images as appropriate.
5. Select the **Basic** tab and and press **Start Image Server**. A dialog will open the first time the web server is started that will require the user's system password.
6. To send an email with a link to the Capture Pilot server, click on the mail icon. (See circled). A new email dialog window will open.



Browse images using the controls in a web browser

Capture Pilot Classic mode: Click on any thumbnail to view a full screen image. Select the forward arrow (see circled in the top screen shot) to inspect the next image or backward to inspect previous images.

Full-screen Mode: Click on the arrow (see circled in the bottom screen shot) to inspect the next image. To inspect previous images, move your (mouse) cursor to the other side of the image and a backward arrow will appear.



Add Color tag and Star ratings from a web browser

1. Go to Capture One and select the Capture Tool Tab, go to the Capture Pilot tool and select the Web tab.
2. Check mark or deselect the Rate images and/or Color tag images option boxes to activate this function.
3. Click on a thumbnail in the web browser so that it is displayed in full screen. A window will appear on the screen where color and star ratings can be applied.



Web viewing modes: Fullscreen

The web browser function offers two primary modes: **Full-screen** and **Capture Pilot Classic**.

Full-screen mode will display a single image in its entirety. Click on the image to display the color tag and star rating as well as a film strip of thumbnails at the bottom of the screen.



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Remote Shooting with Capture Pilot App

Remote capture and exposure control is possible with certain Phase One, Mamiya, Leaf, Canon and Nikon models when tethered to a Mac or Windows computer running Capture One Pro and Capture Pilot's in-app Camera Control option.

- Overview

- Setup a direct (ad-hoc) connection with Phase One IQ3/2 based system camera
- Setup a local network connection with an Phase One IQ3/2 series system camera
- Live View using a Phase One IQ3 100/50MP or IQ250 digital back
- Shoot remotely from Capture Pilot (Camera Control) using an Phase One system camera
- Setup a direct (ad-hoc) connection with an Alpa A-series system camera
- Use Capture Pilot as a virtual viewfinder with A-series IQ3 100/50MP or A250
- Browse images in Capture Pilot
- View Histogram and exposure data
- Add Color tag and Star ratings
- Adjust White Balance
- Change the Exposure settings and shoot directly from Capture Pilot (iOS device)

Overview

In addition to browsing and rating images served by Capture One Pro via a computer, the Capture Pilot iOS app offers wireless remote control, image browsing and geotagging with Phase One and A-series IQ3/2 system cameras using Wi-Fi. Wireless streaming of live view is also possible in conjunction with the Phase One and the Alpa A-series IQ3 100/50MP and IQ250 models. In addition, by adopting the Alpa smart device holder, an iOS device can be directly mounted to the A-series camera and used as an electronic viewfinder.

With Phase One IQ3/2 based system cameras you can capture images, validate exposure, focus and composition and adjust ISO, exposure compensation, shutter speed and aperture value wirelessly from your iOS device. Camera Control is automatically enabled when a Phase One IQ3 digital back is connected to Capture Pilot and is optionally available as an app purchase for other camera models (please be sure to check compatibility first). Only the aforementioned cameras can be operated directly using an iOS device, however, certain other camera models from Phase One, Leaf, Canon and Nikon can still be controlled remotely, providing they're tethered to a Mac or Windows computer running Capture One Pro (version 6.2 or later).

Please note Camera Control has limited functionality with the A-series models due to their manual, mechanical features.

Key Features with Phase One IQ3/2 system cameras

- Access cameras wirelessly, either over a local network connection, or directly using the camera's ad-hoc mode.
- Remotely adjust aperture, shutter, ISO, and exposure compensation values.
- Stream live view images and adjust and update white balance (IQ3 100/50MP and IQ250 only).
- Remotely release the shutter.
- Remotely confirm focus, composition and exposure of captured images.
- Record location data and geotag your images, either in real-time wirelessly, or later when connecting the camera to your iOS device after a shoot.

Key Features with A-series system cameras

- Access cameras wirelessly using the camera's ad-hoc mode (local network connection is also an option).
- Stream live view images (A-series IQ3 100/50MP and IQ250 only).
- Remotely confirm focus, composition and exposure of captured images.
- Confirm current selection of A-series Rodenstock lens.
- Record location data and geotag your images, either in real-time wirelessly, or later when connecting the camera to your iOS device after a shoot.

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Key Features with supported Phase One, Leaf, Canon and Nikon models (tethered to computer running Capture One Pro)

- Access tethered cameras wirelessly, either over a local network connection, or directly using the computer's ad-hoc mode.
- Remotely adjust aperture, shutter, ISO, and exposure compensation values.
- Remotely release the shutter.
- Remotely adjust and update white balance, and confirm focus, composition and exposure of captured images.

Note: Images on the iOS device are previews of images on the camera's CF card, not RAW files.

Setup a direct (ad-hoc) connection with Phase One IQ3/2 based system camera

Phase One IQ3/2 system cameras can be operated remotely by an iOS device running Capture Pilot, all without the need to be tethered to a computer and is especially useful on location.

1. From the IQ3/2 series back, select Menu > WiFi > Mode > Ad-hoc, and return to the top level of the menu.
2. On the iOS device, launch the Settings app and select Settings> Wi-Fi > Choose a Network... This will initiate a scan for the network details. Please wait for the scan to be completed, and for the network name PhaseOne [serial number] to appear under the Choose a Network setting.
3. Select the PhaseOne [serial number] network name to make the server connection. Wait for the name to populate the Wi-Fi setting, complete with checkmark and signal strength indicator.
4. Exit the Settings app of the iOS device.
5. Launch the Capture Pilot app.
6. Select the appropriate network name PhaseOne [serial number] from the Server List page, displayed under Local Servers.
7. Capture a test image using the shutter release or Camera Control in Capture Pilot. An image will be rapidly displayed in the Capture Pilot browser if the connection was successful.

Notes

- Depending on the IQ3/2 back's permissions settings, two server names (Capture Pilot and Camera Control) may be displayed on the Server List page with the same PhaseOne [serial number] network name.
- The option to capture is available from both the Pilot and Control servers, but the latter mode excludes all browsing and previewing options.
- Only one iOS device may access a server at a time, however dual servers allow independent access. For example, a photographer can remotely control the camera using one iOS device while a client browses the captured images on another iOS device.
- Enable/Disable the second Camera Control server. From the IQ3/2 back, select Menu > WiFi > Mode >Off>Settings>Capture Pilot>Capture Remote>On/Off.
- Enable/Disable the Camera Control option in the Capture Pilot server. From the IQ3/2 back, select Menu > WiFi > Mode >Off>Settings>Capture Pilot>Capture>On/Off.

Tips

- You can confirm the network details, signal strength and quality from the WiFi Status option of the IQ3/2 series back, located on the same page of the WiFi menu (Menu > WiFi > WiFi Status).
- The IQ3/2 series back automatically chooses the most appropriate channel but if interference is causing slow network connections, the user can select a channel manually. From the IQ3/2 series back, select Menu > WiFi > Mode >Off>Settings>Adhoc Channel>1,2,3,4... etc.

Setup a local network connection with an Phase One IQ3/2 series system camera

When working in a studio it is possible to connect a Phase One IQ3/2 series camera wirelessly to an iOS device running Capture Pilot via a router. This will extend the range from approximately 8m/25 ft for an adhoc connection to around a maximum of 30m/100 ft.

1. From the IQ3/2 series back, select Menu > WiFi > Mode>On > Select Network, and return to the top level of the menu.
2. If the local network is secured and this is the first attempt to join it, you will be prompted to enter the appropriate username and password (please contact the network's webmaster for the details).
3. If the network has been joined previously, the login details are remembered and the network will be joined automatically once selected.
4. The IQ2 series back will display a graphic when attempting to establish the connection, and then another to confirm when successful.
5. Open the Wi-Fi settings from the iOS device Settings app and connect to the network.
6. Launch the Capture Pilot app and select the appropriate network name PhaseOne [serial number] from the Server List page, displayed under Local Servers.
7. Capture a test image using the shutter release or Camera Control from Capture Pilot.

Notes

- Depending on the IQ3/2 back's permissions settings, two server names (Capture Pilot and Camera Control) may be

displayed on the Server List page with the same PhaseOne [serial number] network name.

- The option to capture is available from both the Pilot and Control servers, but the latter mode excludes all browsing and previewing options.
- Only one iOS device may access a server at a time, however dual servers allow independent access. For example, a photographer can remotely control the camera using one iOS device while a client browses the captured images on another iOS device.
- Enable/Disable the second Camera Control server. From the IQ3/2 back, select Menu > WiFi > Mode > Off > Settings > Capture Pilot > Capture Remote > On/Off.
- Enable/Disable the Camera Control option in the Capture Pilot server. From the IQ3/2 back, select Menu > WiFi > Mode > Off > Settings > Capture Pilot > Capture > On/Off.

Tip

- You can confirm the network details, signal strength and quality from the WiFi Status option of the IQ2 series back, located on the same page of the WiFi menu (Menu > WiFi > WiFi Status).

Live View using a Phase One IQ3 100/50MP or IQ250 digital back

Wireless Live View is offered via Wi-Fi with an IQ3 100/50MP or IQ250 back using the Capture Pilot app and iOS device.

1. Establish an ad-hoc connection between iOS device and Phase One IQ3/2 series digital back.
2. Start Live View from the contextual menu on the IQ3 100/50MP or IQ250 back. (See IQ3/2 User Guide for more information). On the Phase One XF IQ3 100/50MP or 645DF+ with IQ250 series back, the camera automatically opens the shutter for live view to begin. If the IQ3/2 back is attached to any other camera, the shutter must be opened manually.
3. Open the Capture Pilot app on your iOS device.
4. Select the appropriate network name PhaseOne [serial number] from the Server List page, displayed under Local Servers.
5. Tap on the movie camera icon at the bottom toolbar of the Capture Pilot app (on an iOS device). The live view image is displayed from the camera. Choose between Low or High Quality (low or high refresh rates), depending on your needs. Tap LQ/HQ to switch between the settings.
6. To check focus and composition, zoom in and out of the image by pinching the screen. You can inspect detail up to 200%. Drag your finger across the screen to navigate around the image.
7. To capture an image, exit live view. The shutter will be closed automatically on the Phase One XF or 645DF+. On all other cameras, the shutter must be closed manually.
8. Start Camera Control...

Notes:

1. The Phase One XF IQ3 100/50MP, or 645DF+ with IQ250 back, supports Live View in Manual or Aperture Priority modes only.
2. All IQ3/2 series backs support live view with Capture Pilot when tethered to a Mac/Windows computer running Capture One.

Shoot remotely from Capture Pilot (Camera Control) using an Phase One system camera

The Camera Control option is automatically available in Capture Pilot when connected to a Phase One XF IQ3 100/50MP or 645DF+ camera with IQ2 series digital back. This allows both completely wireless remote control using an ad hoc (computer-to-computer) connection, as well as the option to operate the camera wirelessly from the app when the camera is tethered to a Wi-Fi-enabled computer running Capture One Pro.

The Alpa A-series system cameras do not support remote operation, due to their mechanical operation.

For a nominal fee, Camera Control is available as an in-app purchase for other supported Phase One, Leaf, Canon and Nikon models. Supported cameras can only be operated wirelessly from Capture Pilot when tethered to a computer running Capture One Pro.

1. Press the Camera icon in the bottom left corner of Capture Pilot display on an iOS device. The Camera Control dialog window opens.
2. Long press the aperture, shutter or ISO values to access a menu list of alternative settings. Exposure settings can also be altered by swiping the (virtual) dial, which is located next to the numeric settings.
3. Press the Shutter button to trigger the shutter and expose an image. If the camera is tethered, files are saved to a designated Capture One folder on your computer. RAW files are **not** stored on the iOS device.

Setup a direct (ad-hoc) connection with an Alpa A-series system camera

With the Alpa A-series system cameras, the Capture Pilot app allows the user to remotely check the current selection of A-

lens and confirm focus, composition and exposure of captured images. In addition, the Alpa A-series IQ3 100/50MP or IQ250 allows wireless previewing of images for composition and checking focus on an iOS device. By using the new Alpa smart device holder, an iOS device can be mounted directly on the camera and used as an electronic viewfinder.

1. From the IQ3/2 series back, select Menu > WiFi > Mode > Ad-hoc, and return to the top level of the menu.
2. On the iOS device, launch the Settings app and select Settings > WiFi > Choose a Network... which will initiate a scan for the network details. Please wait for the scan to be completed, and for the network name PhaseOne [serial number] to appear under the Choose Network setting.
3. Select the network name in the menu of the iOS device to make the server connection and wait for the name to populate the WiFi setting, complete with checkmark and signal strength indicator.
4. Exit the Settings app of the iOS device.
5. Start the Capture Pilot app.
6. Select the appropriate network name PhaseOne [serial number] from the Server List page, displayed under Local Servers.
7. Make a test shot to verify the server connection; an image will be rapidly displayed in the Capture Pilot browser if the connection was successful.

Notes:

- If battery power in the IQ3/2 Series back is very low a connection may not be easily attained.
- The IQ3/2 series back automatically chooses the most appropriate channel but if interference is causing slow network connections, the user can select a channel manually. Select Menu > WiFi > Mode > Off > Settings > Adhoc Channel > 1,2,3,4... etc.
- Camera Control option in Capture Pilot is not supported by the A-series models due to the manual, mechanical features of the camera.

Tip: You can confirm the network details, signal strength and quality from the WiFi Status option of the IQ3/2 series back, located on the same page of the WiFi menu (Menu > WiFi > WiFi Status).

Use Capture Pilot as a virtual viewfinder with A-series IQ3 100/50MP or A250

1. Establish an ad-hoc connection between iOS device and A-series IQ3 100/50MP or A250 digital back.
2. Open the shutter, and start Live View from the contextual menu on the IQ3 100/50MP or A250 back. (See IQ3/2 User Guide for more information).
3. Start the Capture Pilot app.
4. Select the appropriate network name PhaseOne [serial number] from the Server List page, displayed under Local Servers.
5. Click on the Movie camera icon to display a full-screen live view image. Tap LQ/HQ (low or high refresh rates) to switch between the settings.
6. Capture an image using the A-series camera's mechanical shutter release.
7. Tap any thumbnail to view a full screen image. Tap the Histogram icon to view exposure details.
8. Tap the Histogram window to confirm the A-series lens details.
9. To check focus and composition, zoom in and out of the image by pinching the screen. You can inspect detail up to 200%. Drag your finger across the screen to navigate around the image.
10. Touch-scroll to the next image.
11. Tap the Movie icon in Capture Pilot to return to Live View.

Browse images in Capture Pilot

1. Establish a network connection between iOS device and Phase One IQ3/2 series digital back / Alpa A-series camera (or tethered computer running Capture One Pro, if working with certain supported cameras).
2. Select the primary Capture Pilot server.
3. Capture an image an image using Camera Control (automatically activated with IQ3/2-series back, or in-app purchase for certain supported cameras).
4. Tap any thumbnail to view a full screen image.
5. Zoom in and out of the image by pinching the screen and navigate around to inspect close-up detail up to 200%.
6. Touch-scroll to the next image, or navigate using the forward or backward arrow at the bottom of the screen.
7. Press the Pause icon to temporarily hold the image for assessment (useful if working in collaboration with a photographer capturing images on the secondary Control server).

Notes:

- Click the Back icon in the top left corner (of an iOS device) to go to the previous view. (e.g. Thumbnail view or Server list).
- Thumbnail size can be adjusted by pressing the S, M and L letters in the bottom right corner of the screen on a connected iOS device.

View Histogram and exposure data

1. Press the Histogram icon in the toolbar at the bottom of the screen (on an iOS device) to view or remove a floating/movable Histogram.
2. In addition to the brightness range, exposure information data (where supported) is also displayed.

Add Color tag and Star ratings

1. Tap any thumbnail to view a full screen image.
2. Press the Star icon at the bottom toolbar of the Capture Pilot display on an iOS device. A window will appear on the screen where color and star ratings can be applied.

Adjust White Balance

You can adjust and update white balance on captured images wirelessly using your iOS device and Phase One IQ3/2-series system camera or when working tethered with other supported camera systems. When streaming live view images from the Phase One IQ3 100/50MP or IQ250, the white balance correction made in Capture Pilot is automatically updated on the camera prior to capture.

1. Tap any thumbnail to view a full screen image.
2. Press the eye-dropper icon in bottom toolbar of the Capture Pilot display on an iOS device. A circular sight with cross-hairs will appear on the screen.
3. Drag and drop the sight on an area that you know should be white, or a neutral grey. The sight is active (and turns orange) when dragged.
4. The correction is applied when your finger is lifted from the screen.

Change the Exposure settings and shoot directly from Capture Pilot (iOS device) ^{Pro}

1. Press the Camera icon in the bottom left corner of Capture Pilot display on an iPad/iPod Touch/iPhone.
2. A floating window will appear on screen. Long press the aperture, shutter or ISO numbers to access a menu list of alternative settings. Exposure settings can also be altered by swiping the (virtual) dial, which is located next to the numeric settings.
3. Press the Shutter button to trigger the shutter and expose an image. Files are saved to a designated Capture One folder.



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Geotagging with Phase One IQ3/2 digital backs

The Capture Pilot app enables the syncing of location data wirelessly with Phase One IQ3/2 series camera systems, either in realtime during capture or later when back in the studio.

- Overview
- Enable access to location data
- Geotagging during capture
- Geotagging after capture
- Adjust Polling interval
- Temporarily disable/enable geotagging
- Save battery power

Overview

The Capture Pilot app can append images with location data from an iOS device at the time of capture and even synchronize the data at regular intervals for convenience on location. Geo-tagging is performed wirelessly in the ad-hoc mode with Wi-Fi enabled Phase One IQ3/2 series camera systems. Only IQ3/2 series digital backs support geo-tagging with Capture Pilot.

When wanting to tag files with location data, there's no need for IQ3/2 series digital backs to be connected to your iOS device running Capture Pilot. However, the app must be running in the background during capture and the option to tag files must be enabled on the IQ3/2 series back.

Enable access to location data

After installing the Capture Pilot app, a window will open asking you to grant access to location data. If access is granted, the geotagging feature will be enabled.

To enable or disable access location data

1. Open the iOS device Settings app and select Capture Pilot from the list.
2. Go to Allow Capture Pilot to Access in the menu to confirm access to the location data (even when running in the background). A check mark will be displayed next to the Always option. To disable access, select Never.

Note: In iOS 8.1, this access may also be granted or declined directly from the Capture Pilot app settings page.

Geotagging during capture

1. From the IQ3/2 series main menu, confirm or select WiFi > Settings > Capture Pilot > Capture Pilot Permissions> Geotag captures > On.
2. Next, confirm or select Geotag CF card > On (also located under Capture Pilot Permissions), if not working tethered to a computer.
3. Establish an ad-hoc connection between iOS device and Phase One IQ3/2 series digital back.
4. Launch Capture Pilot and confirm geotagging is enabled (the compass needle icon, located top-right is colored orange when enabled). Images captured will be automatically tagged with location data.

Geotagging after capture

Capture Pilot can append images with location data from an iOS device and synchronize the data at regular intervals for convenience on location. Both the iOS device and IQ3/2 series back must be set to the same time (and time-zone) to achieve accurate results. The time on both devices should be set as accurately possible.

1. From the IQ3/2 series main menu, select WiFi > Settings > Capture Pilot > Capture Pilot Permissions> Geotag captures

- > On.
2. Next, select Geotag CF card > On (also located under Capture Pilot Permissions), if not working tethered to a computer.
3. Establish an ad-hoc connection between iOS device and Phase One IQ3/2 series digital back.
4. Launch Capture Pilot and confirm geotagging is enabled (the compass needle icon, located top-right is colored orange).
Be sure the Capture Pilot app is running in the background during capture.
5. After shooting, connect the IQ3/2 series back wirelessly to the IOS device and Capture Pilot will append files on the CF card (if multiple cards have been used, insert cards into the camera in succession).
6. A confirmation dialog will be displayed on the IQ3/2 back when it has finished tagging the files.

Adjust Polling interval

Capture Pilot logs location data every 60 seconds when left to the default setting. This can be overridden if necessary. For example, you can use a longer interval if you're not expected to change location within the set time-frame.

1. Launch the Settings app on the iOS device.
2. Select Capture Pilot > Geo Tagging > Location > Polling Interval and select the interval as required.

Temporarily disable/enable geotagging

Geotagging is enabled by default and operation can be confirmed when the compass needle icon (top-right) in Capture Pilot is colored orange.

To temporarily disable/enable the feature

1. Open Capture Pilot app on your iOS device.
2. To temporarily disable the feature, tap the icon (it will change color from orange to white).
3. Tap again to enable the feature.

Save battery power

Data logging may be turned off after a set period of time to conserve battery power of your iOS device.

1. Open the iOS device Settings app and select Capture Pilot from the list.
2. Confirm access to the location data is enabled (see above).
3. Go to Geo Tagging in the menu and select Turn Geo Tagging Off and then chose the appropriate time period from the options (after an hour / 3 hours / 8 hours / at the end of the day).
4. Select Capture Pilot in the settings (top) to return to the main menu and confirm the change.
5. Open Capture Pilot app, and make sure the geotagging option is in operation (the compass needle icon located top-right in Capture Pilot is colored orange).

Battery power can also be saved when the application is inactive.

1. Return to the iOS device Settings app.
2. Go to Geo Tagging > Location > Save Battery in Background > On.

Note: When the application is inactive the reliability of the location data will be reduced.

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Editing Images

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This section describes all the tools used in the creative process from adjustments to watermarking. Most adjustment tools in Capture One enable you to alter the whole image, as well as apply more targeted adjustments using the brush tool or gradient filter.

Capture One includes a wide range of adjustments that can be applied to images from the tools located in the tool inspectors. The adjustment tools are thought of as global but typically affect only a certain range of pixels within an image, such as the white point with the Exposure slider, and hue and saturation when making a White Balance correction. In addition to global adjustments, most of the same tools also offer the option to apply the adjustments to certain areas of an image. These so-called local or localized adjustments are applied using the same techniques adopting brush strokes to limit the selection using, for example, either a traditional mouse or interactive pen and graphics tablet.

Capture One offers two methods to apply local adjustments. The simplest and quickest is to brush on the adjustment from the Layers tool and to observe the effect on-screen as it is applied. The second adopts the same underlying technology, however you create a layer first and then a mask with a few targeted brush strokes and apply the adjustment to that. The benefit of this is predominantly organizational, however, it also offers greater control and flexibility with more complex jobs involving multiple adjustments. You can easily apply multiple adjustments to overlapping, or even the same, masked areas using individual layers. And, you can create as many as 16-layers for each image. Being organized also helps when additional repairs are needed, using the clone or heal tools. If you adopt one method only to find you would prefer the other, don't worry; the two are in fact seamless, allowing you to switch between them at any time.

Lens Correction

Use the Lens Tool Tab to address a number of unwanted issues commonly associated with lens distortion.

Composition

Alter the layout of your images by cropping, rotating and applying keystone correction.

Working with Colors

Capture One provides a number of tools to adjust colors. The tools are designed to support your workflow when handling specific issues like saturation, white balance or skin tone.

Histograms

The histogram is one of the most important tools to master in your digital workflow, from the point of capture and subsequent editing and on to output. Capture One has several histograms and each one portrays the tonal distribution of an image a different stages in the your digital workflow. Find out how to read them and use them to your advantage.

Exposure and Contrast

Use the Capture One Exposure Tool Tab to adjust exposure, contrast, brightness, saturation, levels and clarity.

Details


The Details Tool Tab includes tools for sharpening, noise reduction, adding film grain, and both moiré and spot removal.

Styles and Presets

Capture One has a wide range of built-in Styles and Presets that not only allow you to add a visual effect to images but you can also use them to add specific adjustments and metadata to images in your daily workflow. You can also create and apply your own customized Styles and Presets.

Layer Adjustments ^{Pro}

Capture One Pro allows you to make targeted adjustments to your photos using the majority of the image editing tools from the Layers tool. There are three ways to create a mask for your




localized image adjustments: Painting with a brush or by creating either a Linear Gradient Mask or a Radial Gradient Mask that can be readjusted at any given time. In addition, repair is available using the brush-based Heal and Clone tools.

Annotating Images ^{Pro}

Capture One Pro allows you to superimpose line drawings or sketches on images using the Annotations tool. It is intended as a visual aid when suggesting ideas for retouching.

Editing in other Applications

Editing images in third-party software, such as Adobe Photoshop or Helicon Focus, is available using the Edit With... and Open With... commands.





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Lens Correction

LENS CORRECTION / LCC / GENERIC LENS PROFILE / VIGNETTING

Use the Lens Tool Tab to address a number of unwanted issues commonly associated with lens distortion.

Lens Correction

Capture One has numerous tools to deal with lens distortion, including automatic detection and correction using lens profiles.

Removing Lens Casts with the LCC tool

Find out how to create a Lens Cast Calibration (LCC) profile using Capture One's LCC tool to remove lens casts from images. The LCC tool can also be used to correct illumination fall-off and create a dust map to automatically remove sensor dust.

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Lens Correction

Capture One has numerous tools to deal with lens distortion, including automatic detection and correction using lens profiles.

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- Recording and entering shift movements

Overview of correction profiles

The Lens Correction tool includes predefined corrections or profiles for many popular lenses from major lens manufacturers. The profiles include corrections for distortion, chromatic aberration, diffraction, and both sharpness and light fall-off.

In addition to lens specific profiles, the Generic or Generic Pincushion Distortion profiles available in the Lens Correction tool address the most detrimental issues related to any simple spherical lens. Complex distortion however, can only be fully corrected with the lens specific profiles. Where possible the lens type will be automatically selected in the **Profile** menu. A selection of the most suitable lens correction profiles can be found under the **Recommended Lenses** heading, or you can manually select a lens correction profile from the available list.

If a specific lens model is not supported in the Lens Correction tool, you can create a Lens Cast Calibration (LCC) profile to correct a number of issues. For more details, see the section on [Create a LCC profile](#).

Apply a specific lens profile

When Capture One detects a lens model with a correction profile in the database, the profile is selected and, typically, chromatic aberration and distortion correction adjustments are automatically applied.

If the lens model has not been detected, follow the steps below to locate the profile manually or to select a profile for a similar lens. To manually apply correction, follow the steps under the [Apply a generic lens profile](#) section, below.

1. Go to the Lens Tool Tab and select the **Lens Correction** tool.
2. Select an image from the [browser](#) and choose a specific lens from the **Profile** drop down menu. (A selection of the most suitable lens correction profiles can be found under the Recommended Lenses heading or select one from the available list).
3. Once a lens is selected, a check mark will appear in the **Chromatic Aberration** check-box and Capture One will automatically apply the correction based on the lens profile.



- If the image still shows some chromatic aberration, click the Analyze (...) button to the right to start Capture One's built-in analysis and correction algorithms. This will nearly always result in improved correction of chromatic aberration, as the adjustment is based on the actual lens (and image sensor) used during capture.
- Adjust the Distortion, Sharpness Falloff and Light Falloff sliders as necessary. Diffraction correction may also be necessary, see below for more details.

Apply a generic lens profile

When a lens is not recognized by Capture One, you can either select a profile for a similar lens from the list that will apply corrections automatically (see above), or correct the lens using the following steps.

- Go to the **Lens Tool Tab** and select the **Lens Correction** tool.
- Select an image from the **browser** and choose the **Generic** option from the **Profile** drop down menu. (All sliders in the tool are reset; there are no default settings for a generic lens).
- Check mark the option boxes, as desired
- Select the **Chromatic Aberration** option to start chromatic aberration analysis and correction on the selected image. Multiple images can be corrected after selecting the Edit All Selected Variants option from the Edit menu or Toolbar.
- Click on the Analyze (...) button to restart the process, if necessary.
- Adjust the Distortion, Sharpness Falloff and Light Falloff sliders to the desired settings. See below for more details.



About chromatic aberration and purple fringing

Chromatic aberration occurs because light of different wavelengths takes different paths through the lens that may not be in focus on the sensor. As most light is a mix of several wavelengths, the lens will focus the colors differently and create color fringes on edges of high contrast areas.

Since chromatic aberration results from colors that have shifted, a white or light color on a dark background will have colors on either side. The most common effects are seen as red/cyan and blue/yellow fringes but others are possible. One of the more unsightly is green/purple but this should not be confused with purple fringing.

Steel, chrome and other metallic products often give rise to extreme contrast that can generate purple fringing. Purple fringing is, like chromatic aberration, an artifact that occurs because a lens interacts differently with light of varying wavelengths. Unlike chromatic aberration, purple fringing will not usually show fringes of different colors. Purple fringing is mostly visible on the edges of very high contrast image areas, such as metallic products or branches on a tree against a bright sky.

Purple fringing is often seen on images that also show chromatic aberration. Wide-angle lenses are more likely to show this artifact.



Removing chromatic aberration

Capture One's chromatic aberration analysis function can be used to remove troublesome fringing from multiple images, not just single photos. This option will override chromatic aberration correction from a lens profile and, as each individual image itself is analyzed, often results in improved correction.

- Go to the **Lens Tool Tab** and select the **Lens Correction** tool.
- Select multiple images from the browser.
- Press the Analyze (...) button to start the correction process.



Removing purple fringing

Capture One features a specifically designed tool to remove purple fringing. It includes a familiar slider allowing control over the intensity, as well as the usual

options to save the resulting setting to the adjustments clipboard or as a preset. Both allow the setting to be applied to multiple images. Although the Purple Fringing tool is offered as a standalone control for global corrections, purple fringing removal can also be applied locally, using an adjustments layer. As a result, the Purple Fringing tool can be found under both the Lens Tool Tab as well as the Local Adjustments Tool Tab.

1. Go the [Lens Tool Tab](#) or [Local Adjustment Tool Tab](#) as necessary, and select the **Purple Fringing** tool.
2. Zoom to at least 100% in an area displaying a fringe with a purple hue along a high contrast edge. Note the inclusion of complementary cyan, magenta or yellow-green fringes usually indicates chromatic aberration.
3. To reduce the intensity of the purple fringing, drag the slider to the right. If the fringing is severe it may not be possible to remove it entirely.
4. The setting can be copied and applied to other image files as a [Style](#) or [Preset](#), if required.

Diffraction correction

Overcoming diffraction is challenging for photographers trying to maximize sharpness through the use of extended depth of field, and it is especially burdensome in close up work and landscape photography, where small apertures are crucial. Diffraction first reduces micro-contrast and then resolution, as you stop down beyond a certain aperture, which is known as the diffraction limit. Stopping down beyond that point will only reduce the resolution.

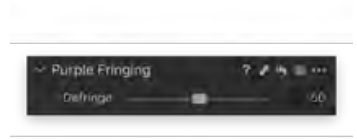
Capture One's Diffraction Correction option enables you to close down at least one stop further than you would be able to do so without it. Selecting this option helps mitigate the effect using a sophisticated deconvolution algorithm to sharpen the image and restore some of the fine detail that was lost during capture. Note this feature is not enabled automatically as it is processor intensive when images are viewed at 100% magnification and, when the time comes to output files, it extends processing times. Enabling this tool and the application of Sharpness Falloff correction can be considered the first stage in capture sharpening. Note this feature is compatible with RAW files only.

1. Select an image or multiple images from the browser.
2. Go to the **Lens** inspector and select the **Lens Correction** panel.
3. From the Lens tab, enable **Diffraction Correction** with a check mark to apply the correction.
4. The setting can be saved as a component of a Lens Correction User Preset and applied to multiple images.

Diffraction correction with a manual lens

When enabling the diffraction correction option in the Lens Correction panel, Capture One doesn't rely on the lens profile it reads the EXIF metadata in the image file to optimize and apply the deconvolution algorithm instead. If some of that data is missing, such as when using adapted lenses and manual, mechanical lenses without a data interface, you can add it manually in the Movement tab and still benefit from the diffraction correction feature. Accurate record keeping is required for the focal length and aperture used at the time of capture.

1. Select an image or multiple images (if they were captured with the same focal length and aperture) from the browser.
2. Go to the **Lens** inspector and select the **Lens Correction** panel.
3. Click on the **Movement** tab, and manually enter the focal length and the taking aperture.
4. Click on the **Lens** tab and enable the **Diffraction Correction** with a check mark to apply the compensation.
5. The setting can be saved as a component of a Lens Correction User Preset and applied to multiple images.



Distortion correction

Capture One's Distortion slider can be used to fine-tune either barrel or pincushion distortion correction, depending on the lens profile selected. The slider functionality automatically changes to suit the type of distortion. This is particularly convenient when the profile contains data for both barrel and pincushion distortion such as that found with zoom lenses.

When there is no suitable lens correction profile available, the user must select the Generic profile when barrel distortion is present, or choose the Generic Pincushion profile to remove pincushion distortion. Note, complex or waveform distortion can only be corrected by a lens profile.

1. Navigate to the **Lens Correction** tool, and check the profile for your lens has been selected automatically, otherwise search for a suitable profile from the drop-down menu.
2. Adjust the **Distortion** slider for that profile to 100% to fully correct this issue (if there is one).
3. Alternatively, when there is no suitable profile available, select from either the Generic (i.e., barrel) or Generic pincushion distortion profile, depending on the distortion visible in the selected image.
4. Adjust the **Distortion** slider while observing the effect on the image against the displayed grid in the main viewer.
5. Switching between the two Generic profiles during adjustment will reset the slider to zero.
6. The setting can be saved as component of a Lens Correction User Preset and applied to multiple images.



Correcting soft corners

Softness or a loss of sharpness can occur in the corners and outer zones for many reasons and is quite common in wide-angle and ultra wide-angle lenses. Soft corners are often seen as a desired retro-focus effect. However, with the Sharpness Falloff slider, Capture One can help correct this effect if it is unwanted.

1. Select an image that you want to correct.
2. In the **Lens Correction** panel, check the profile for your lens has been selected automatically, otherwise search for a similar model or use the generic profile options instead.
3. Adjust the **Sharpness Falloff** slider for that profile to 100% to fully correct this issue (if there is one).
4. Alternatively, experiment with the image at 100% to get an appropriate setting. Higher values than 100% are possible and increase the effect of the correction.
5. The setting can be saved as a component of a Lens Correction User Preset and applied to multiple images.



Reduce light falloff

Light falloff arises because an image is exposed more at the center of the frame than at the corners. The distance light has to travel from the lens to the sensor is greater at the edges than it is at the center and, therefore, less light reaches the sensor from the lens at those more oblique angles. In addition, some of the outer off-axis light is restricted by the lens barrel, which is known as vignetting. This effect is most common with wide-angle lenses that are used at the initial aperture (i.e., wide-open). Falloff due to vignetting can usually be reduced by stopping down.

1. If you have a profile for your lens, set the amount to 100% to result in a completely flat and even-looking image.
2. Alternatively, use a generic profile and manually set the desired amount with care. Higher values than 100% are possible and increase the effect of the correction.
3. The setting can be saved as component of a User Preset and applied to multiple images.



Recording and entering shift movements

When capturing images with shift movements, the shift value can be manually added to text fields in the Lens Correction tool's Movement tab. In addition to being used by that tool to optimize various corrections, the LCC tool can also adopt that data to optimize the LCC profile for illumination fall-off.

Vertical shift

Vertical movements, sometimes referred to as rise and fall must be entered in the Y field. Rise should be recorded as positive (+), and fall as a negative (-) value, with the minus (-) sign being used to indicate movement in the opposite direction; in this case indicating fall. The field will not recognize the + sign, thus it's unnecessary.

Note, for the purpose of adding data in the Movement tab, a parallel downwards shift of the IQ digital back is the same as a parallel upwards shift of the lens and, therefore, should be recorded as a positive value.

Horizontal shift

Horizontal movements, left or right, should be entered in the X field. When operating the camera from behind (i.e., when looking at the subject), movements to the left should be recorded as positive (+), though as with vertical shifts, there's no need to add the + sign. Movements to the right should be recorded as negative, and the (-) minus sign used.

Compensating for camera orientation

The shift X/Y entry fields in the Movement tab take image rotation into account. However, you may need to take note during capture if you've mounted the camera in a vertical position, especially when making horizontal movements, left or right. If a vertical image isn't automatically re-oriented in the Browser from the file's metadata, for example, then shift values for horizontal left/right movements must be entered in the Y field instead.

1. Go to the **Lens Correction** tool and click on the **Movement** tab in the tool.
2. If the focal length and the taking aperture can be detected, the values will automatically be shown in the corresponding fields. Otherwise manually enter the information.
3. Enter the shift data for the X and Y axis. Changing the shift parameters will have a positive benefit on the distortion and light falloff corrections in particular.



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Removing Lens Casts with the LCC tool

LCC / LENS CORRECTION / VIGNETTING

Find out how to create a Lens Cast Calibration (LCC) profile using Capture One's LCC tool to remove lens casts from images. The LCC tool can also be used to correct illumination fall-off and create a dust map to automatically remove sensor dust.

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- Applying LCC correction adjustments
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- Permanently update LCC correction data and profile
- Saving LCC correction data as a User Preset
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Overview ^{Pro}

Color casts from lenses are quite a common occurrence on technical cameras. Not only can it occur with wide-angle lenses, it can befall other focal lengths, particularly if extreme shift movements have been applied.

This troublesome effect is caused by the outer image-forming incident rays from the lens striking the surface of the sensor at oblique angles. At worst, it's highly visible regardless of the scene, however, in its most nuanced form it can only be detected in images with neutral gray or white backgrounds, where typically a green cast can be seen in one corner of the image and a magenta cast in the opposite corner.

It's not just technical cameras that exhibit color casts, the effect is common with rangefinder cameras and other mirrorless models including cameras with non-interchangeable lenses where the rear lens element is positioned close to the sensor, particularly wide-angle lenses.

Reflex cameras, however, rarely exhibit color casts, especially when using fixed (i.e., not zoom or tilt and shift) lenses between 60mm and 120mm focal lengths.

Illumination fall-off in lenses where the corners of the frame darken is even more common across all formats and lens types. Both uneven illumination and lens casts can be corrected in Capture One on supported RAW files using the Lens Cast Calibration (LCC) correction tool. Additionally, the tool can be used to create a dust map to automatically remove sensor dust from images.



What's a LCC plate?

Made from optical resin, the LCC plate is an opaque, matte textured, spectrally neutral tile that's included with the Phase One XF value-added kit. It is also available separately as a Phase One accessory (no. #6020094) from your dealer. The 100 x 100mm (4x4 in) plate is suitable for lenses with an accessory thread of approximately up to 95mm.

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The plate has a filter factor of 3-4x [1 2/3 to 2 stops]. When adjusting exposure to compensate, you should decrease the shutter speed, as the resultant LCC profile is based on the aperture setting used during capture.



Capturing a characterization image

Capture One's Lens Cast Calibration (LCC) tool requires a "characterization" image to be captured alongside the image to be corrected. Simply capture your image in the studio or on location as normal, followed quickly by a second image with a LCC plate held in the optical path like a filter.



In some specific cases such as when working with a copy stand where you have fixed lighting and short working distances, you can substitute the LCC plate with a gray card. Make sure the card covers the complete field of view and that no part of the resulting image is close to being clipped in the highlights.

This second characterization image is used later in Capture One to create a LCC reference image and associated LCC profile. The success of the resultant LCC profile is dependent upon the angle of the incident light falling upon the sensor being as close as possible between the characterization image and that of the image you're trying to correct.

For optimal correction, that means avoiding lighting changes, and not altering lens settings such as focus distance and aperture or applying any tilt and shift movements between the two images. When more generalized corrections are required, however, Capture One's LCC tool is still capable of building highly-effective profiles.

Quick guide: Six simple steps to correct an image

When left to the default settings, the LCC tool can remove color casts, correct illumination fall-off and map sensor dust.

1. Following the capture of your image, hold the LCC plate as close as possible over the front of your lens.
2. Increase your exposure 2-stops, using either the appropriate shutter speed or ISO. (It's important not to alter the aperture used to capture the initial image.)
3. Capture an image with the LCC plate in place. (Make sure to cover the lens completely.)
4. Open the LCC capture (known as the characterization image) in Capture One.
5. Go to the **LCC** tool, and click on **Create LCC**. (The characterization image is corrected and becomes what's then known as the LCC reference image.)
6. Select that LCC reference image and the image you would like to apply it to, and choose Adjustments > Apply LCC. The image is updated with the corrections from the LCC reference image.



Add movement data

When attempting to build a LCC profile for a technical camera with movements applied, or a camera with a tilt-shift lens, the profile creation process can be optimized for shift movements.

As lens data is not recorded in the RAW file's EXIF data from technical cameras, or when using some adapted tilt-shift lenses on mirrorless cameras, the focal length, taking aperture and movement value (in mm) must be manually recorded at the time of capture (using notes or a smartphone).

Shift values should also be recorded when using tilt-shift lenses on DSLRs. For more information on this, see the section on [Entering shift movements](#). These values must be added in the Movement tab of the Lens Correction tool.

1. Select the appropriate characterization image in the Browser.
2. Go to the Lens Inspector.
3. In the **Lens Correction** tool, go to the **Movement** tab, verify or manually add the focal length and aperture setting, and manually enter shift X and shift Y adjustments (in mm).

Wide-angle lens correction ^{Pro}

Correction can be optimized for wide-angle lenses, particularly those on technical cameras where the outer image-forming rays strike the sensor at acute angles.

1. Select the characterization image from the Browser, that's relevant to the image or images you want to correct.
2. Go to the Lens inspector. Select the **LCC** panel and press the **Create LCC** button, or from the Adjustments menu > Create LCC... or press ctrl/right-click and select **Create LCC...** from the contextual menu. A dialog opens under the main tool bar.
3. Enable or verify the **Include Wide Angle Lens Correction Data** option. In general, this can be left enabled, though it will also increase processing time slightly.

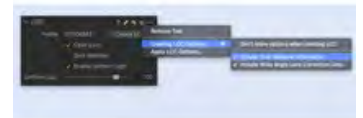


Removing sensor dust

When attempting to build a LCC profile from the characterization image, Capture One can map sensor dust for removal. This can be enabled from the LCC panel's Action menu or from an optional dialog window.

When the option is enabled, the data is recorded but it's not automatically applied to the resultant reference image like the other corrections. As sensor dust is usually temporary, if you're going to create a LCC Preset from the reference image, consider whether the dust data is likely to be relevant.

1. Select the appropriate characterization image in the Browser
2. Go to the Lens inspector.
3. From the **LCC** panel, click on the Action icon (...). The LCC menu opens.
4. From the menu, select **Creating LCC Options** and choose **Include Dust Removal Information**. Alternatively, when ready to create the reference image, click on **Create LCC**. A warning dialog opens. Verify or enable **Include Dust Removal Information**.



Verifying display options

If the profile creation dialog doesn't open after selecting Create LCC, check the options in the LCC panel.

1. Go to the **LCC** panel, and click on the action menu icon (...) in the title bar. The LCC Options menu opens.
2. Select Creating LCC Options... > Don't show options when creating LCC, and remove a check-mark if present. Once removed, the options will be displayed prior to creating the LCC reference image and associated profile.



Creating a LCC reference image (LCC profile) ^{Pro}

Capture One can be used with any RAW supported camera to correct lens color casts and illumination fall-off.

Before you start, you must have captured a characterization image using a LCC plate at the time of capturing the image or images you want to correct.

If you're attempting to build a profile for a technical camera or a camera with a tilt-shift lens with movements applied, then the profile can be optimized for it. See above for the extra steps involved.

1. Select the characterization image from the Browser, that's relevant to the image or images you want to correct.
2. Go to the Lens inspector. Select the **LCC** panel and press the **Create LCC** button, or from the Adjustments menu > Create LCC... or press ctrl/right-click and select **Create LCC...** from the contextual menu. A dialog opens



- under the main tool bar, with options for optimizing the profile for wide-angle lenses and for dust mapping. See above for more details.
3. Press **Create**. The thumbnail in the Browser is now be labeled with **LCC**.
 4. This LCC reference image is now ready to be applied to your image (see below for details), or consider saving as a preset to apply to your images instead. See below for more information.

Applying LCC correction adjustments

After the creation of the LCC reference image and the associated LCC profile, you must apply the correction data from them to your images. To speed up your workflow, the correction data is applied between the LCC reference image and the image or images to be corrected.

If you've captured the characterization image with the intent to use it to perform general lens corrections, consider saving the LCC reference image as a LCC Preset. See the section on [LCC Presets](#) for more details.

1. Capture One can detect whether a LCC reference image should be applied to the image next to it in the Browser. If they're not adjacent to each other, select the relevant LCC reference image (i.e., the thumbnail labeled LCC), as well as the corresponding image to be corrected. (A single LCC reference image can be applied simultaneously to multiple images, if they were captured under the same conditions and with identical settings as the LCC reference image.)
2. From the main menu, select Adjustments > Apply LCC..., or ctrl/right-click, and choose **Apply LCC**.
3. The correction adjustments from the profile and any subsequent adjustments to the LCC reference image are applied to the selected image or images and visible in the Viewer.

Making manual adjustments

After applying the LCC reference image to your capture, you can make further adjustments to it from the LCC panel. The adjustments are temporary, and the profile itself is not updated.

Note that if an option is grayed out the LCC profile was built without that data. You can also adjust the illumination fall-off to taste using the Uniform Light slider.

If you want to apply the new adjustments to a batch of images, you can use this method on the LCC reference image itself and then re-select the Apply LCC option from the Adjustments menu. However, when you want the adjustments to permanent and repeatable, consider creating a preset or updating the profile instead.

1. Select the image to be adjusted from the Browser, if not already.
2. From the **Lens** inspector, go to the **LCC** panel.
3. Enable or disable options as required.
4. Adjust the Uniform Light slider as necessary.
5. The image is updated in the Viewer. (Note the LCC profile itself is not updated.)



Permanently update LCC correction data and profile ^{Pro}

The LCC tool can be used to permanently update the LCC profile associated with the LCC reference image. Use this option to modify or remove shift amounts, disable the Color Cast and Dust Removal options if necessary and permanently update the Uniform Light correction.

When adjusting the Uniform Light option, the LCC tool doesn't rely on the Uniform Light slider at the bottom of the panel to update the LCC profile. At this stage it has changed functionality from being used to override the amount during profile creation to being a temporary adjustment slider.

As result, a dialog box opens with a second Uniform Light slider. This is used to override the slider in the LCC tool and update the profile. Like that adjustment slider, corrections range from 0-120%.

Note that any related presets such as those used within User Styles or User Presets are not updated, therefore you will have to recreate them from the updated LCC reference image.

1. Select the LCC reference image in the Browser.
2. Optional. From the **Lens Correction** tool, click on the **Movement** tab and update or remove shift values.



3. From the **LCC** panel, disable Color Cast/Dust Removal options as appropriate. Options will be grayed-out, if not previously selected.
4. Click on the action menu icon (...) in the tool's title-bar and select **Apply LCC Options...** The **Uniform Light** dialog opens beneath the main tool bar.
5. Optional. Enable the **Uniform Light** option box with a check mark and adjust the slider as desired.
6. Press **OK**. The LCC profile is updated.
7. Now when you re-apply the LCC reference image, this new Uniform Light setting and any other changes will override the existing adjustments in the LCC tool.

Saving LCC correction data as a User Preset^{Pro}

After capturing a characterization image and creating an LCC profile you can save it and any subsequent manual correction from the LCC panel as a preset.

Consider using presets if you've made a series of characterization images for a particular lens and camera (i.e., sensor) combination, or you have done so with various movements included.

1. Select the LCC reference image from the Browser, or select an image with the LCC profile already applied to it.
2. Go to the **LCC** tool and click on the **Manage Preset** button (three bars icon) in the title bar. The Manage Preset menu opens.
3. Select Save User Preset... from the menu. A Save Preset dialog box opens. Disable options as required. Note the profile and correction data can be enabled or disabled separately as desired. In general, it is best to include all the options, as they can be disabled later.
4. Name and save the preset, ideally using a combination of camera, lens model, f-number and any shift data used during capture. The preset is created and ready to be applied.



Applying LCC Presets

The LCC tool can be used to apply presets consisting of not only the LCC profile itself but also of any retrospectively applied adjustments to it.

The LCC manage menu presents a flat list of available user created LCC presets (i.e., User Presets). A second section in the list displays presets recommended by relevance. This is not meant to be a definitive list.

Cameras do not record movement data, therefore if the selected image was captured with some movements applied, please verify the LCC preset is suitable, particularly regarding conversion between axes. For more information on the subject, please see the section on [Entering shift movements](#).

1. Select the image or images you want to apply the preset to. (With multiple images be sure to check they were captured with the same camera, lens (i.e., focal length), taking aperture, and if any movements were included, that they were also the same in each image).
2. From the **LCC** tool click on the Manage Presets button (three lines icon) in the title bar. The Manage Presets menu opens.
3. Select the relevant User Preset from the list. If choosing a recommended preset, be sure to verify that it is suitable for the selected image or images, especially when shift movements have been included in the LCC preset. The list is based on EXIF metadata which does not take shift data into account. Therefore, it may not be the most relevant for the selected image, or images.
4. Once selected, all selected images are updated with the correction data from the preset. Note that further, manual adjustment using the LCC tool is still possible if desired.



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Composition

COMPOSITION / CROP / KEYSTONE / ROTATION

Alter the layout of your images by cropping, rotating and applying keystone correction.

Cropping Images

The Crop tool enables freehand and fixed ratio crop options. It is even possible to crop outside the image area.

Rotating, Straightening, and Flipping Images

Find out how to straighten, rotate and even flip an image. Capture One additionally has a semi-automated levelling feature with Phase One IQ-series digital backs — discover how to access and apply it for a fully integrated workflow.

Keystone Correction ^{Pro}

Find out how to alleviate perspective distortion using keystone correction.

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Cropping Images

CROP / ROTATION

The Crop tool enables freehand and fixed ratio crop options. It is even possible to crop outside the image area.

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- Add a custom aspect ratio
- Copy and apply a crop to one or more images
- Crop outside the image area
- Altering the mask
- Grids and Guides
- Adding a grid or guideline
- Workflow basics

Introduction

The Crop tool is located in the [Lens Tool Tab](#) but you can also access it in the [Cursor Tool Bar](#). Images can be cropped using an unconstrained or fixed ratio. To apply the crop after selection, simply switch to another cursor tool, such as the Pan or Select tool. Click the **Reset** adjustments button to revert to the uncropped image.

Holding the shift key while applying a crop will ignore any previous crop. Placing the cursor close to the corner of the crop allows you to rotate the image while cropping, making it easier to compose your images.

Note that if you are using Capture One **Cultural Heritage**, the Crop tool have an additional **Modify Crop** feature that lets you change both the position and the size of a single crop or multiply cropped selections after they have been applied. Read more about the Modify Crop feature [here](#).



Crop an image

1. Go to the [Lens Tool Tab](#), or long-press the crop tool in the [Cursor Tool Bar](#).
2. From the drop down menu, select the aspect ratio required or use the **Unconstrained** ratio, as desired. Note, the Original option maintains the aspect ratio of the initial capture.
3. Drag a crop frame in the Viewer. Depending on your [preference settings](#) there will be a semi-transparent mask over the area that is being cropped.
4. The orange numbers on the sides indicate the size of the cropped image.
5. To **see the applied crop** in its final form, select another cursor tool.



Add a custom aspect ratio

1. Go to the [Lens Tool Tab](#), or long-press the crop tool in the [Cursor Tool Bar](#).
2. Choose **Add Aspect Ratio** from the **Ratio** drop down menu.
3. Add a name and the ratio dimensions needed in the dialog box.
4. Press OK. The new ratio will appear in the **Ratio** drop down menu.



Copy and apply a crop to one or more images

1. Select the image that you want to copy the adjustment from in the [browser](#). (The thumbnail will have a thick white border).
2. Now select the image thumbnails that you want to apply the adjustment to. (The thumbnail(s) will have a thin white border in the browser).
3. Make sure the **Edit All Selected Variants** is selected in the toolbar, or from the Image menu.
4. Press the small double-ended arrow icon (see circled). A dialog box will appear.
5. Press Apply at the bottom of the dialog box. The adjustment will be applied to the selected images.



Crop outside the image area

1. Go to the [Lens Tool Tab](#).
2. In the Crop tool, check mark the **Crop Outside Image** option.
3. Now it is possible to adjust the crop area outside the image area.
4. When another tool is selected the new crop is shown in the Viewer.



Altering the mask

Capture One offers a highly customizable mask when cropping. In the preferences under the Crop tab, note how the masked area outside the crop can be adjusted to taste. By using the Opacity and Brightness sliders, it is possible to turn the mask into a fully black or white color or any tones within those two extremes. You can also choose whether you would like to always see the two labels showing the image dimensions, show them only while dragging the crop, or never. This is done from the Show Labels drop-down menu.



Grids and Guides

As an aid to composition, multiple grids and guides can be displayed when cropping but they are also available on demand at other times. Be sure the settings have been applied in the Preferences (Crop) pane first: grids and guides may be displayed upon dragging only when cropping, or displayed permanently after the Show Grid and Guides option is selected from the main menu. Note, grids and guides can be selected independently in the Preferences pane.



Adding a grid or guideline

1. Make sure the relevant settings for the Grid (**During Drag Only**, or **When Grids and Guides On**) are applied first in the **Preferences** (Crop) pane. Any number up to 59 equally spaced vertical and horizontal lines can be chosen.
2. If guide lines are required when cropping, select that option from the same **Preferences** pane, or simply select **View > Grid and Guides** from the main menu.
3. Whenever guides are needed after cropping, or for composition at other times, select **View > Grid and Guides** from the main menu to toggle them on. Note, the grid may be used instead, if a fixed pattern is required.
4. Multiple guides may be added from the main menu, select **View > Customize Grid and Guides > Add Horizontal Guide** or **Add Vertical Guide**. Guides may be dragged into position using either the Pan (h) or Select (v) cursor tools. To prevent accidental movement of the guide, select **View > Customize Grid and Guides > Lock Guides** from the main menu.
5. If all of the guides displayed are no longer required, select **View > Customize Grid and Guide > Reset Guides**, or if a single guide line



- needs removing, click and drag the line parallel to the edge of the frame.
6. To remove a guide (or a grid) temporarily, select **View > Grid and Guides** from the main menu to toggle the view off.

Workflow basics

- Adjust a crop by dragging the edges of the preview inwards (the cursor will turn into a two-way arrow) until the desired crop has been achieved.
- Click within the crop boundary (where the cursor will turn into a cross) and drag the selection to move the entire selected cropped area.
- Rotate the crop to suit by grabbing just outside the corners of the crop frame (the cursor will change to a curved arrow).
- The original image with the cropping mask is shown in the thumbnails.
- Reselect the **Crop** tool at any time to readjust the crop settings.
- The crop masking can be changed in Preferences. Go to Capture One>Preferences and select the Crop option to change the opacity and brightness of the mask being used.
- Click the **Reset Crop** adjustments button to undo a crop and revert to the original un-cropped image.



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Rotating, Straightening, and Flipping Images

ROTATION / CROP / KEYSTONE

Find out how to straighten, rotate and even flip an image. Capture One additionally has a semi-automated levelling feature with Phase One IQ-series digital backs — discover how to access and apply it for a fully integrated workflow.

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- Straighten or rotate multiple images
- Straighten an image
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Orient images

Capture One reads the image file's metadata to automatically orient the image to that set in the camera. If that data isn't available or readable, Capture One provides several options to orient your images quickly.

Short-cuts to the Rotate All Selected Variants Left or Right are available in the main tool-bar, while Rotate Left or Right Cursors are available via the Rotate cursor group in the cursor tool-bar, as well as from the Rotation & Flip tool.



The short-cuts and cursors rotate images through 90-degree steps, so if the wrong one is selected inadvertently you can apply it several times to orient the image correctly. The cursors can also be used on thumbnails in the Browser, bypassing the Viewer and making it easier and quicker to orient occasional, non-contiguous images without selecting them first.



The Rotation & Flip tool also offers both a Left and Right button that enables you to rotate images through 90-degree steps without changing your cursor.



Straighten or rotate multiple images

When image straightening, rotation or flipping is required to be copied and applied to multiple images, there is an intermediate step to enable the option

using either the tool's individual Adjustments Clipboard, or the master Adjustments Clipboard.

This extra step is to ensure that these specific adjustments are deliberately applied and is meant to prevent unwanted image rotation or flipping when applying other, more general image adjustments. It is also meant to prevent inadvertent inclusion when creating User Styles or Presets.

1. Select the image that you want to copy the adjustments from in the Browser. (The thumbnail will have a thick white border).
2. Enable the Edit Selected Variants icon in the main tool-bar, if not already.
3. Select the image thumbnails that you want to apply the crop to. (The thumbnail(s) will have a thin white border in the browser).
4. Go to the **Rotation & Flip** tool and press the small double-ended arrow icon in the tool's title bar. A dedicated Adjustments Clipboard dialog box opens.
5. Enable the required options with a check-mark (e.g., Rotation, Orientation, and/or Flip).
6. Press **Apply** at the bottom of the dialog box. The adjustment will be applied to the selected images.



Straighten an image

Capture One offers a dedicated cursor tool to straighten images. The cursor can be found in the Rotation & Flip tool, as well as from the Cursor tool-bar. You can also access it using the keyboard shortcut R.

Click in the image and drag the cursor along a horizon or a line in an image that you want the image aligned to. The tool can be used with vertical references as well, for example, against the side of a building. Capture One automatically rotates the image to the line you've created and then crops it accordingly.

1. Go to the Lens Inspector.
2. From the **Rotation & Flip** tool, select the **Straighten** cursor (curved arrow icon) or select the Straighten cursor option from the [Cursor tool menu bar](#).
3. Go to the Viewer and mark-up a horizontal or vertical line in need of correction by clicking on a point at one end of a horizon then clicking on the other end, for example.
4. The image will be automatically straightened and cropped when the mouse-button is released.
5. Use the **Angle** slider to fine-tune the straightening. For ultra-fine adjustment, hover your mouse over the slider and change the setting with your scroll wheel if desired.



Rotate manually

When there's no visual reference, or you simply prefer to adjust by eye, manual rotation of images is possible using either the Rotation & Flip tool's Angle slider, or by clicking and dragging the image with the Rotate Freehand cursor.

Use Shift-R to switch between the cursors in the group. The Grid Overlay opens in conjunction as an aid.

1. Go to the Lens Inspector.
2. From the **Rotation & Flip** tool and alter the rotation by adjusting the **Angle** slider. (Hover your mouse over the slider and change the setting with your scroll wheel if desired).
3. Alternatively, long press the **Straighten** (R) icon in the tool or cursor tool-bar and select the **Rotate Freehand** option.
4. Once **Rotate Freehand** is selected, go to the Viewer and click and drag the image to the desired angle.

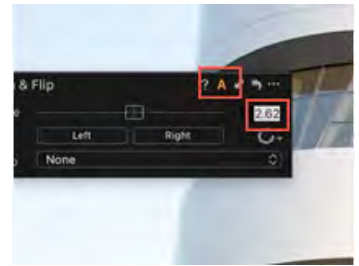


Auto Rotate (Phase One IQ series backs only)

Phase One IQ-series digital backs have a built-in gyroscope to level the image in Capture One. This minor rotation adjustment isn't performed automatically and must be initiated by selecting the Auto Rotate option in the Rotation and Flip tool.

When enabled, the option is included in Capture One's Auto Adjust feature available from the main menu (choose Adjustments > Auto Adjust (cmd-L)), or from the main tool bar (A) icon. It is additionally available in the Catalog and Session import dialogs as well, so the adjustment can be applied automatically on import.

1. Select the image or images in the Browser that require leveling.
(Images must have been captured using a Phase One IQ series digital back).
2. Go to the Rotation and Flip tool, and select **A** from the tool's title bar.
3. All of the selected images will be leveled automatically. For the selected image, the amount of rotation applied in degrees is displayed in tool's text box.



Reset Rotate adjustment

You can reset a rotation adjustment without it affecting an orientation (e.g., Left or Right, perpendicular type) adjustment. Rotation adjustments include the automatically applied levelling feature when using a Phase One IQ-series back, or manual adjustments using the Angle slider, or Straighten or Rotate Freehand cursors.

This resetting of rotation adjustments can be made to vertical (portrait) or horizontal (landscape) oriented images.

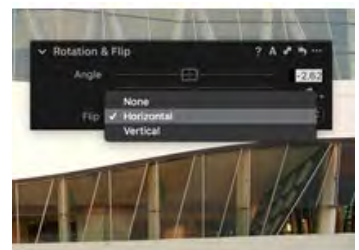
1. Select the image or images with rotation adjustments applied, including any of those that have also had orientation adjustments made to them.
2. Choose from the following:
 - o From the main menu, select Adjustments > Rotation > Rotate Snap (Alt-Command/Ctrl-L)
 - o From the **Rotation & Flip** tool, click on the action icon (...). The Action menu opens.
3. Select **Rotate Snap**. Images snap back to their original state; landscape or portrait.



Flip an image

Capture One can be used to flip an image horizontally, or vertically, if required. The horizontal option is often used to alter the image in an attempt to improve the visual weighting on a page, but it should be used with extreme caution. Manipulation of images this way is often noticeable and in some cases may even be unacceptable.

1. From the Lens Inspector.
2. Go to the **Rotation & Flip** tool and select either **Horizontal** or **Vertical** from the **Flip** drop down menu.
3. The image is instantly flipped over to the selected format.
4. To return to the state as originally captured, select **None** from the menu, or press the tool's reset icon in the title bar.




Resetting adjustments

You can reset all of the adjustments made to an image using the Rotation & Flip Inspector tool's built-in reset feature. When you want to preserve the images' orientation (i.e., perpendicular Left/Right) adjustments, select Rotate Snap instead.

1. Select the image or images with any rotation and flip adjustments applied, including any of those that have also had orientation adjustments made to them.
2. From the **Rotation & Flip** tool, click on the curved-arrow icon in the tool's





title bar. All of the adjustments made and applied from this tool to the selected images are reset. Select Option-click to temporarily apply the resetting, (e.g., to see the effect before applying permanently).

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Keystone Correction Pro

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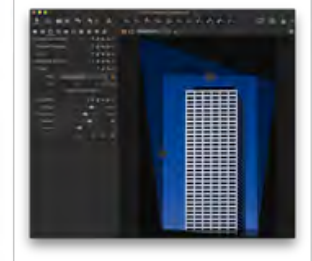
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- Apply automatic vertical and horizontal keystone correction
- Hide distorted edges
- Auto rotate for IQ-series digital back

Introduction

It is not always possible to get the best angle on a subject and eliminate all distortion. Architecture photographers often have to correct perspective distortion of tall buildings. Capture One Pro gives you the ability to apply keystone correction. You can quickly correct any perspective distortion by using the vertical and horizontal sliders or use the cursor markers to pinpoint lines that should be parallel.

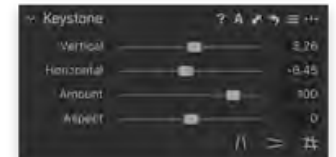
The Keystone function can be operated manually by adjusting individual sliders or, when using an Phase One IQ-series digital back, you can use the [Auto](#) option. The Auto Keystone Correction icons can be selected beneath the sliders or in the cursor tools. Choose between the automatic vertical, horizontal or full correction.

To apply the settings to multiple images that need the same correction, you can use the local Copy/Apply functions.



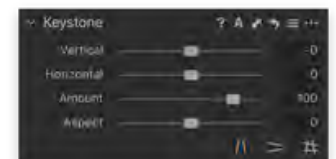
Apply keystone correction manually

1. Go to the [Lens Tool Tab](#).
2. In the **Keystone** tool, adjust the **Vertical** or **Horizontal** sliders.
3. Adjust the **Amount** slider.
4. Fine-tune **Aspect** if necessary.



Auto keystone correction tool

There are three auto **Keystone** correction tools, denoted by the following icons, from left to right: Keystone Vertical, Keystone Horizontal and Keystone. (See circled.) The active icon will turn orange. The auto keystone correction tool can be selected using the keyboard shortcut **k**.



Apply horizontal or vertical correction

1. Go to the [Lens Tool Tab](#).
2. In the **Keystone** tool, select the Keystone Horizontal or the Keystone Vertical icon.
3. Set the four points to mark up the vertical or horizontal lines that need to be aligned.
4. Press the **Apply** button (located in the center of the image in the Viewer).
5. Adjust the **Amount** and **Aspect sliders** as desired.



Apply automatic vertical and horizontal keystone correction

1. Go to the [Lens Tool Tab](#).
2. In the **Keystone** tool, select the **Keystone** icon.
3. Set the four points to mark up the vertical or horizontal lines that need to be aligned.
4. Press the **Apply** button (located in the center of the image in the Viewer).



Hide distorted edges

There may be occasions when you need to hide the distorted edges after applying a keystone correction. In rare situations you might need to crop outside the image. For further information, see the section [To Crop Outside Image Area](#).

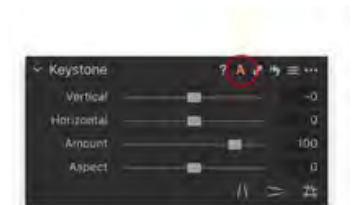
1. Go to [Lens Tool Tab](#).
2. Check mark the **Hide Distorted Areas** option in the [Lens Correction tool](#).
3. Distorted edges will now be automatically clipped.



Auto rotate for IQ-series digital back

The IQ-series digital backs have an integrated motion sensor that automatically logs the angle of a captured image.

1. Press the **A** icon in the Keystone tool to correct an image so that the horizontal angle is square to the ground. If, for example, an image has been captured looking up at a tall building with any perspective distortion, then the **A** (Auto) function will also correct any converging verticals.
2. Applying a Keystone setting will also adjust the rotation of an image. If you want to undo the Keystone setting and the rotation, remember to press the undo icon for both individual adjustments.



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Working with Colors

Capture One provides a number of tools to adjust colors. The tools are designed to support your workflow when handling specific issues like saturation, white balance or skin tone.

Working with ICC Profiles, Tone Curves and Process Engines

Use the Capture One Base Characteristics panel to define the camera's default reproduction of both color and tonal characteristics. The panel also allows the upgrading of the process engine when working on images in a newer version of Capture One.

Working with White Balance

Use the Capture One White Balance tool to establish perfect, natural colors and neutral grays.

Working with the Normalize tool

You can use the Normalize tool to quickly set a working baseline for both Exposure and White Balance between two images. In addition, when light levels are controlled and consistent between captures, it can be used to make very precise adjustments.

Color Balance ^{Pro}

The Color Balance tool enables you to fine-tune color easily, and offers individual control over the shadow, mid-tone and highlight areas of the image.

Working with the Color Editor

The Color Editor enables you to select and adjust a narrow color range without affecting other colors in an image.

Black & White

The Black & White tool enables users to convert images into razor sharp monotone photos.

Displaying Color Values ^{Pro}

Capture One can display multiple RGB, CMYK or Lab color readouts at various points in an image.

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Working with ICC Profiles, Tone Curves and Process Engines

/ CUSTOMIZATION / COLORS /

Use the Capture One Base Characteristics panel to define the camera's default reproduction of both color and tonal characteristics. The panel also allows the upgrading of the process engine when working on images in a newer version of Capture One.

- Overview of the Base Characteristics panel
- Select an alternative ICC Profile
- Select an alternative tone curve
- Fujifilm Film Simulations
- Save as new default settings
- Overview of process engines
- Re-render previously adjusted images using the latest engine
- Re-render using a legacy engine

Overview of the Base Characteristics panel

After de-mosaicing the RAW files, Capture One automatically selects the recommended default ICC color profile and applies an appropriate tone curve setting for all RAW image files from recognized camera models. These color and tone settings define the overall look for the camera or digital back.

The processing engine can also have an effect on the resultant image. Although the engine is upgraded for each new version of Capture One, that's often to facilitate new features, and doesn't necessarily mean the color rendering has changed. While all subsequently imported images will be rendered with the new engine, if some of the new tools in the latest version rely on the new engine, then you may not be able to use them on the previously imported and adjusted images, without updating them. In general, it's not recommended, especially when they've been processed or exported to a final file. However, when there is a need to do so, it is suggested that you clone the earlier images and re-render them with the new engine.

When updating to a new version you won't therefore be prompted to update your existing images, but you will be asked to migrate the database of any older Catalogs, or Sessions that you open. Although this has no impact on image quality, you will benefit from any advances made to the reliability and performance of the management system.

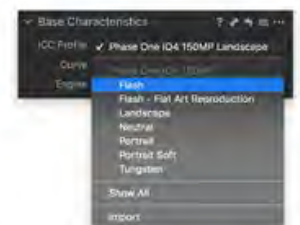
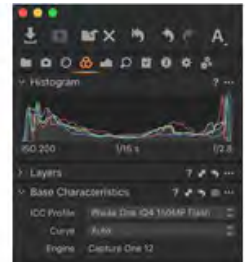
If you are using Capture One **Cultural Heritage**, the Base Characteristics tool have an additional Mode drop-down menu and specialized Cultural Heritage ICC Profiles. Read more about these [here](#).

Select an alternative ICC Profile

All of the ICC profiles are custom made by Phase One for the specific camera model. In some cases, certain camera models have additional ICC color profiles for various light sources.

Where only one profile is offered for a particular model, it may be possible to interchange with profiles from other models, in an effort to match the color, for example. Simply select the most appropriate for your intended use.

1. Select the image or images that you want this adjustment to be applied to.
2. Go to the **Color** Inspector.
3. In the **Base Characteristics** panel, click on the **ICC profile** menu field.



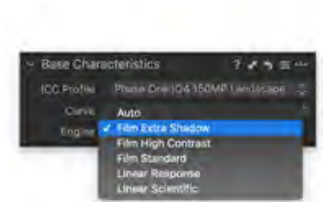
- A drop-down menu opens.
4. Select from the following options:
 - o Camera model name - recommended profile, or optional profiles for that camera model, if any.
 - o Show All - all supported camera models listed by maker, including some effects.
 - o Import - select to import custom profiles.
 5. Go to the **Curve** drop down menu and verify **Auto** is selected, or choose from the options (see below for more details).

Select an alternative tone curve

The Base Characteristics panel's Curve option dictates the initial tone mapping for the camera model. The choices offered are intended to emulate traditional film curves.

The Auto curve option automatically selects the appropriate tone curve characteristics based on the selected ICC color profile, usually the Film Standard setting where offered. In general, this option can be left to the default Auto setting, unless you prefer a different starting point with the tonal characteristics.

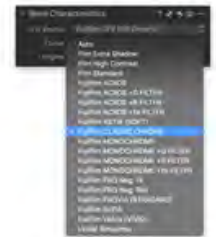
1. Select an image or images in the browser captured with the camera model that you would like apply the adjustments to.
2. In the **Base Characteristics** panel, go to **ICC Profile** fly-out menu and either verify, or select, the appropriate profile for the camera model.
3. Go to the **Curve** drop-down menu and select from the following:
 - o **Auto** (default) - selects the most appropriate tone curve from those below, based on the ICC profile selected.
 - o **Film Extra Shadow** - offers similar tone characteristics to the Film Standard option, with less contrast in the shadows.
 - o **Film High Contrast** - has higher contrast than Film Standard, with deeper shadows and brighter highlights.
 - o **Film Standard** - gives a similar look to transparency film, with deep blacks and bright mid-tones and highlights.
 - o **Linear Response** - has reduced contrast overall and is intended to offer maximum control of tone mapping using the separate Curve tool, found under the Exposure Inspector.
 - o **Linear Scientific** - this is intended for scientific purposes only, and should be avoided for general-purpose photography. This option is not available for most cameras.

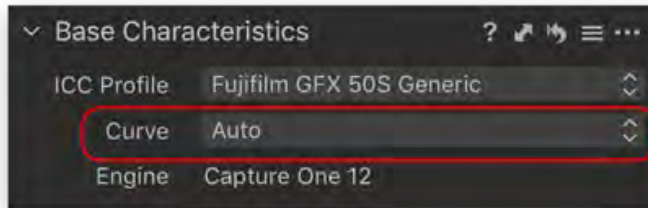


Fujifilm Film Simulations

Capture One 12 supports a range of **Fujifilm Film Simulations** like **Fujifilm Provia** and **Fujifilm Velvia** when working on Fujifilm RAF raw files. The different Film Simulations are available from the **Curve** drop-down menu in the **Base Characteristics** tool when working on an applicable Fujifilm RAF raw file.

If you have selected a Fujifilm Film Simulation style in your Fujifilm camera, Capture One 12 will automatically apply the correspondent style to the RAF raw files. This is the default behavior as long as **Auto** is selected in the **Curve** drop-down menu.

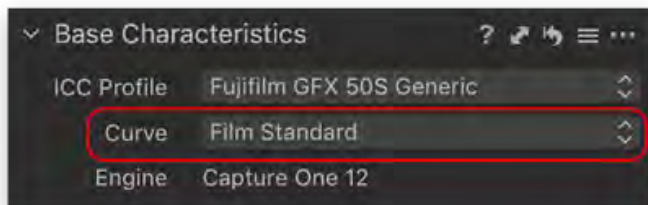




Note this is a change from how Capture One 11 rendered the RAF raw files by default since prior versions did not support Fujifilm Film Simulations and instead rendered the RAF raw files with Phase One optimized colors and tone curve.

You should also be aware that the different Fujifilm Film Simulation styles under **Curve** will not only affect the tone curve (e.g. contrast and light balance), but also the colors. This is because the Fujifilm Film Simulation styles have an ICC profile applied under the hood.

If you want to render the RAF raw files with the Phase One optimized colors and tone curve (like the default in Capture One 11), please select **Film Standard** from the **Curve** drop-down menu.



You can change the default behavior by selecting **Film Standard** from the **Curve** drop-down menu, then click on the action icon in the Base Characteristics tool and select **Save as Defaults for Fujifilm XXX**. The RAF raw files will now be rendered with Phase One optimized colors and tone curve instead of the in-camera selected Fujifilm Film Simulation style.



Save as new default settings

When you want Capture One to apply the same ICC profile and tone curve to the camera model each time you import new images or your create new variants (using only the New Variant command), you must save the choices as a new default setting.



Note existing images will not be affected. If you want those images updated with the new defaults, choose the new settings and select Save as Defaults, then select the existing images and use the Apply Defaults command.

1. Select an image captured using the camera model you intend to change the defaults for.
2. Go to the **Base Characteristics** tool, and choose new settings from the

following drop down menus:

- o **ICC Profile** - select new profile
 - o **Curve** - select Auto or new curve
3. Click on the action menu icon in the title bar and select from the following:
- o **Save as Defaults** - save as the new defaults for only new and newly imported variants from the relevant camera model.
 - o **Apply Defaults** - apply new defaults to selected (i.e., existing) variants from the relevant camera model.
 - o **Reset Defaults for [Camera Model]** - reset variants back to the Capture One default settings. Note the first variant modified in step 2 is not reset; simply select the required profile and curve manually instead.

Overview of process engines

Capture One only adopts the latest process engine on newly imported images, it does not automatically upgrade the process engine on existing images.

The processing method or engine determines the way in which a RAW file is demosaiced, color managed and presented on screen. The tools and their adjustments in Capture One can therefore produce different results depending on how they interact with the processing engines.

Although advances in engines can dramatically improve how the image is rendered, several legacy engines are included to support previously used workflows, so there's no real need to upgrade.

However, should you wish to take advantage of new tools and advances in the process engine with existing images, you can manually upgrade the engine on selected variants from the Base Characteristics tool.

Warning! If you choose to upgrade the process engine, it is recommended that important images are cloned first, so that not only can they be compared before committing, but more importantly that you also retain a copy of the image with the adjustments.

As upgrading the engine on variants has an irreversible effect on adjustments, this is an especially important consideration if you've finalized the images for output, and particularly so, if they've already been submitted to your client.

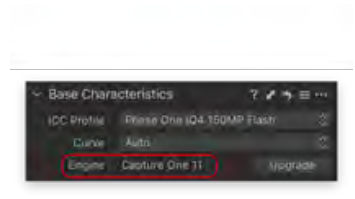
Re-render previously adjusted images using the latest engine

In general, it is not recommended to upgrade the process engine on existing variants. Unless you specifically want to take advantage of new adjustment tools on previously adjusted and processed images, it's not usually necessary to upgrade existing images. Capture One includes several legacy engines and the relevant one will be used with those variants.

However, if you wish to experiment to see the effect of any new tools on those images, it is recommended that you make a clone of important images and only upgrade the processing engine on the clones. This way you will be able to compare the results and retain the existing images with their adjustments using the legacy engine.

Note User Styles and Presets created using a legacy engine may have to be fine-tuned with the new engine.

1. Go to the **Color Inspector**.
2. Select images in the Browser that require re-rendering. If multiple images are chosen, make sure the Edit Selected Variants option in the tool bar is selected.
3. From the **Base Characteristics** panel, in the **Engine** text field, verify that the images were rendered with an earlier engine. **If so, the version will be displayed along with an Upgrade button.**
4. **Warning!** Previous adjustments will be permanently upgraded and you will not be able to retrieve them later. If unsure, ctrl/right click (macOS/Windows) and select Clone Variant (F3/F8). Clones will be made and pre-selected for the next step (the original variants are not now selected and will be excluded from further adjustment).
5. Click on the **Upgrade** icon to re-render the selected images. A warning



- dialog opens with Upgrade Engine or Cancel options.
6. Click on **Upgrade Engine**, or press Cancel to return to editing with the existing engine.

Re-render using a legacy engine

Individual images can be re-rendered using an earlier engine quite simply from within a Catalog or Session.

Note that this option is not intended as a method of restoring images that have been rendered using a newer engine to a previously adjusted state.

Upgrading permanently modifies any adjustments made.

In contrast, this option simply applies the default settings of the legacy engine to the selected variants. Any adjustments made will have to be re-applied from memory.

1. From the main menu, choose Capture One/Edit > Preferences (macOS/Windows). The Preferences dialog window opens.
2. Click on the **Image** tab.
3. From the **Editing** panel, go to the **Default Process Engine** fly-out menu and select the earlier version as required. Several legacy versions are supported.
4. Select the image in the browser, choose Image > New Variant, or select ctrl/right-click > New variant, or use the shortcut F2/F7 (macOS/Windows). The image will be re-rendered with the legacy engine
5. Apply adjustments as before, and, if necessary, process them to output or export.
6. Remember to switch back to the latest engine to adopt the latest advances in image processing and the new tools, otherwise any new, imported images will be rendered with the legacy engine and will have to be upgraded.



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Working with White Balance

WHITE BALANCE / BLACK AND WHITE

Use the Capture One White Balance tool to establish perfect, natural colors and neutral grays.

- Overview of White Balance
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- Setting White Balance automatically
- Selecting a neutral area with the picker
- Setting a custom white balance using a gray card or chart
- Adjusting by mode
- Adjusting Kelvin and Tint sliders
- Returning the white balance to the camera's settings
- Adjusting JPEGs

Overview of White Balance

The human visual system automatically compensates for the color of light from various sources, and it attempts to make the light white in color even when those sources are mixed. With camera sensors, each model has its own response to color that is relative to the ICC profile selected in Capture One's Base Characteristics panel and that varies under different lighting conditions. It is this response that results in a color cast in your images.

With RAW files, the color cast can be removed by neutralizing, or "balancing", color values in Capture One. However, as white balance is interpreted in-camera at the time of capture, some care is required if you're capturing JPEGs. Although Capture One can apply some adjustments retrospectively to JPEGs using the camera's auto white balance setting, there is far less flexibility with previously processed files. In general, it is good practise to set an appropriate white balance setting or adopt an in-camera preset for JPEG's based on your creative intent.

Alternatively, using a gray card or reference target for custom white balance settings, either at the time in-camera or retrospectively with Capture One, can simplify and even accelerate your workflow, helping you achieve accurate and consistent results with both RAW and JPEG files.

When it is necessary to adjust the white balance, Capture One has a dedicated tool that's both flexible and easy to use. Like every other tool in Capture One, altering the white balance has no effect on your source files until you go to process them, and even then Capture One makes identical copies to create a new image file instead.

About the White Balance tool

Capture One's White Balance panel is located within the Color inspector and has several controls, including an auto option, a number of presets, a picker (eyedropper), and two sliders which are meant to be used last to fine-tune the results if necessary.

Four White Balance presets can be found under the Mode fly-out menu. These represent the most commonly encountered light sources (i.e., Daylight, Flash, Tungsten, and Fluorescent). Simply select the most appropriate, according to the scene. In addition, the Mode menu can display Custom and Shot options. The latter refers to the White Balance used by the camera at the time the

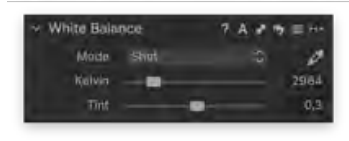


image was captured, while the former is displayed when the user makes a new white balance adjustment.

When accuracy is paramount, the picker (eyedropper) can be used on a gray card or reference chart, or you can click on any white surface that isn't clipped.

An Auto Adjust option is included in the tool's title bar. Although useful for a quick adjustment, it should be considered as an initial step. As a result, it is not enabled as one of the default settings of Capture One's Auto Adjust option (available from the Adjustments menu or from the toolbar).

The Kelvin slider initially displays the color temperature selected by the camera and can be overridden within the range 800 to 14000 degrees Kelvin. The scale on the slider represents the actual Kelvin value, which is subject to slight variations from camera to camera. Moving the slider to the right will achieve a warmer (yellow) look and to the left for a cooler (blue) appearance.

The Tint slider also displays the setting selected by the camera to start with and can be fine-tuned to remove green and magenta tints. Both sliders are updated when new white balance adjustments are made.

Setting White Balance automatically

The Auto Adjust White Balance function automatically selects a neutral white balance for each selected variant (providing the Edit Selected Variants function is enabled). However, although this option is useful, the Auto Adjust White Balance should be used on a limited range of images taken under similar lighting conditions. Therefore, it is not enabled as one of the default settings for Capture One's standard Auto Adjust option, available from the Adjustment menu or main toolbar.

1. Go to the **Color** Inspector.
2. Select the image or images that you want to adjust from the Browser.
3. Press the small Auto Adjust (A) icon in the title bar of the White Balance tool. The Temp and Tint sliders and values are updated and the Mode displays the Custom setting option, as a reminder that the camera's white balance setting has been adjusted.
4. If further adjustment is required, edge the **Tint** slider to the left to remove a magenta cast, or to the right to remove a green cast.



Selecting a neutral area with the picker

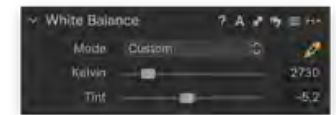
Setting a custom white balance without a gray card is simple and effective though choosing an area in the image requires some care, or unexpected results will occur.

Select the white balance picker (eyedropper) (W) and click-on the brightest white area in the image that has some detail. Do not select specular highlights or other areas that are clipped, as the results are unpredictable and unlikely to be desirable. If there is no white surface in the image, look for a bright gray area.

White or light objects that are reflecting colors should also be avoided such as light reflecting from green foliage on to a shirt or chair, for example. Where images include people, and in the absence of a gray card in the image, selecting the white of the eyes, or even the teeth, is a long-established and well-known technique with digital techs, retouchers and portrait photographers alike.

Repeated selections using the White Balance picker overrides the previous setting and, like other tools in Capture One, has no detrimental effect on your source image file.

1. Select an image and go to the **Color** inspector.
2. From **White Balance** tool select the White Balance picker (eyedropper)



- icon) and click-on a bright white or light neutral area in the image with detail (do not select specular highlights or other areas that are clipped). Note the White Balance picker is also available from the cursor bar.
3. Repeat the selection till satisfied with the result. The previous Temp and Tint values will be overwritten and updated, and the Mode field will display the word Custom, to show that you have overridden the camera's settings.

Setting a custom white balance using a gray card or chart

The simplest and most consistent method of selecting and removing color casts from neutral colors is to capture an image of a gray card or color reference chart under the same lighting conditions as your subject. Then, using the White Balance picker (eyedropper), select an area that should be neutral. Many photographers choose a neutral 18% gray patch or a white patch, but it will depend on your own preferences, experience and creative intent.

Although the reflectance of cards and charts remain consistent, within certain time limits, it is important that they are optimally exposed and illuminated evenly, avoiding flare. The same card or chart can also be used to determine the optimal exposure, see here for more details.

Over time, the reflectance or spectral response of cards and charts change and no longer remain neutral under various lighting conditions. When you're unsure, select a gray patch that appears suitable and use the Tint slider to make adjustments. For example, when you've captured an image under fluorescent lighting, a green cast is likely. Use the Tint slider to remove it by edging the slider control to the right.

1. Select an image and go to the **Color** inspector.
2. From **White Balance** tool select the White Balance picker (eyedropper icon) or use shortcut (W) and click-on a neutral gray patch or gray card. The White Balance picker is also available from the cursor bar.
3. Repeat the selection until satisfied with the result. The previous Temp and Tint values will be immediately overwritten.
4. If further adjustment is required, edge the **Tint** slider to the left to remove a magenta cast, or to the right to remove a green cast.
5. Copy and apply this setting to other images.



Adjusting by mode

Regardless of whether or not the variant is based on a RAW source file or JPEG. When you select an image in the viewer, Capture One will initially display the white balance you chose on your camera at the time of capture. The White Balance tool displays this choice as Shot in the Mode field.

If the variant is based on a RAW source file, then the Mode drop-down menu will contain presets to match to the light source, which you can choose from to alter the white-balance retrospectively. Besides the typical presets there may be some more advanced options available, depending on the camera model. For example, some cameras have extensive presets for fluorescent light sources, whereas others allow you to register manually set white-balance data for specific light sources. If these options are available, the White Balance tool will display them in the Mode drop-down menu (see example).

With a JPEG-based variant, there are no presets available as the White Balance was chosen at the time and processed with the setting applied when writing to the camera's memory card. You can, however, use the White Balance picker and Kelvin and Tint sliders to make adjustments, though within much narrower range.

1. Select an image in the Browser and go to the Color Inspector.
2. From **White Balance** tool click on the **Mode** text field to reveal the drop-down menu.
3. Select the preset from the list that is most relevant to the lighting in the image. For example, if the subject is in shadow, select Shade, and view the results on the image in the Viewer.
4. Other presets may also be suitable, you can continue to apply the presets until a suitable result is found. New selections override the previous settings.
5. If further adjustment is required consider adjusting the **Kelvin** (Color



Temperature) slider first based on your recollection of the scene, then adjust the **Tint** if there's a slight green or magenta cast. Or consider using the White Balance picker instead, it is the fastest way to making a successful white balance edit. See below for more information.

Adjusting Kelvin and Tint sliders

Manual correction, or adjusting to taste, using the sliders is nearly always necessary after adjusting by mode or after selecting a neutral point, especially when dealing with colored reflections, where the ambient light has been absorbed (e.g., underwater), and when encountering mixed lighting. It is not usually possible to neutralize the whole image in these situations without using selective editing, however, that may not be desirable. Using the tint slider can help reduce color casts to the point where the image is reminiscent of the original scene.

1. Make a white balance adjustment using the pick, mode or Auto options.
2. Fine tune the white balance using the two sliders:
 - o **Kelvin** - This changes the color temperature of an image within the range 800 to 14000 degrees Kelvin. Move the slider to the right to achieve a warmer (yellow) hue and to the left for a cooler (blue) appearance. The scale on the slider represents the actual Kelvin value, which is subject to slight variations from camera to camera.
 - o **Tint** - The adjacent text field also displays the setting selected by the camera to start with, and moving the slider to the right can remove green casts common in fluorescent strip/tube-type lighting. Moving the slider to the left removes magenta casts.



Returning the white balance to the camera's settings

When capturing images in RAW mode, the camera's white-balance setting can be left to Auto. Most modern cameras will deliver acceptable results, however, as the neutral white point is calculated and saved in the metadata of RAW files you can make the decision to adjust it later. When left to Auto in RAW mode or when capturing JPEGs in-camera, Capture One displays the camera's white balance settings in the White Balance tool as Shot.

1. Go to the **Color** inspector.
2. Select the image or images that you want to adjust from the Browser.
3. From the **Mode** drop down menu, select **Shot**. The image is updated in the Browser and both Temp and Tint sliders and values return to the settings made in-camera.



Adjusting JPEGs

With the exception of the selection of the presets available under the Mode menu, all of the other functions of the White Balance tool are available for adjusting JPEGs. It should be noted that these files will have had white balance applied previously, as well as further color adjustments in some form or other, and have far less latitude for additional adjustment than RAW files. This can usually be detected in the Viewer when working on JPEG-based variants.



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Working with the Normalize tool

WHITE BALANCE / EXPOSURE /

You can use the Normalize tool to quickly set a working baseline for both Exposure and White Balance between two images. In addition, when light levels are controlled and consistent between captures, it can be used to make very precise adjustments.

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An overview of the Normalize tool

Capture One Pro's Normalize tool is a highly versatile addition that can be used to make easier baseline corrections in any number of commonly occurring scenarios, as well as some highly specific use cases, such as flat-art reproduction and certain scientific applications, where accurate color matching is essential.

In general, it is intended to be used early in the workflow to quickly establish a combined, base exposure and white balance setting for a region of interest. Once selected, the values are then applied to a second image, or a number of images in a sequence, for consistent exposure and color. For example, you can make a selection from a skin-tone or a reference patch in one image, and apply it to another image in the same or similar region of color with a similar tonal scale, using an eyedropper that can be quickly toggled between pick and apply.

The tool can also be used in the same way to normalize only the white balance (i.e., hue and saturation), where light levels are consistent between images, such as those captured in the studio under controlled-lighting. You can use this option when you want an object to have a specific color, for example, to match a particular color associated with a well-known brand.

When used in that way, an optional Color Selector dialog enables you to input RGB/HSB values directly to proof a different color space to your working color space. A separate color patch is displayed in the chosen color space, prior to updating the Apply Normalization eyedropper with the same values.

The Normalize tool can be used to match exposure and colors in the same image, or between two images in one or more open documents (i.e., between Catalogs and/or Sessions). Note that both Exposure and White Balance can be normalized together or separately, and that the Normalize tool replaces the previous Skin Tone option in the White Balance tool of Capture One 11.0 and earlier versions.

Normalizing images

In most cases, both exposure and white balance can be selected together



when the objective is to normalize another image, or set of images, against a source image that contains, for example, a bright white area with detail (i.e., that's not clipped), gray-card or has a skin-tone, under similar or mildly varying light on location.

When normalizing against a color patch on a reference chart under consistent lighting conditions where color accuracy is crucial, it may be beneficial to disable the exposure option.

Note although the tool is intended to provide a baseline between images, you can also use the tool on the same image where conditions allow.

RGB values chosen with the eyedropper (N) are available to all open Catalogs or Sessions, so you can, for example, select a color and brightness value in a Session and apply it to an image in a Catalog, or vice versa.

1. Select the source image (e.g., one with a gray-card taken under specific lighting conditions).
2. Open the Color Inspector, and go to the **Normalize** tool.
3. Enable **White Balance**, and **Exposure** if not already, by adding a check-mark to the corresponding box.
4. Click-on the **Pick Normalize Color** eyedropper (N) in the tool, or from the cursor tools, and select an area you want to match (e.g., a bright white area, or gray card, or when matching color only; a color patch on a reference chart).
5. The Pick field is updated with the selected color and the corresponding RGB values are listed alongside for the selected color space. (This is determined by the nominated ICC Profile in the selected Process Recipe.)
6. Select the destination image, that is the one you want to make the correction to (ideally under similar or identical lighting).
7. Select the **Apply Normalization** eyedropper, or toggle between the pickers using (Alt+N), and click on the area in the image to apply the correction to (e.g., if both exposure and white balance are enabled; a neutral area with slight color cast, or with exposure disabled, the subject you want to color match, etc.).
8. The image will be updated in the Viewer with the adjustment(s) applied. If the result is unexpected, continue to re-apply the eyedropper to another, more suitable area with similar tone. The image will be updated with the new correction.

Normalizing between documents

The procedure for applying a normalization correction is practically identical between images in two open documents (e.g., a Catalog and a Session, or between two Catalogs) as it is in the same document.

Note Capture One automatically converts the color values between spaces if the two documents have different output profiles selected. Note also that the option to open more than document at time must be enabled in the Application Preferences (Capture One/Edit (macOS/Windows) > Preferences > General tab > Catalog and Session > Open in new window).

1. Select the image in the Browser.
2. Open the Output Inspector and verify the color space in the ICC Profile field of the chosen Process Recipe.
3. Open the Color Inspector and go to the **Normalize** tool.
4. Enable the White Balance and/or Exposure options with a check-mark.
5. Click-on the **Pick Normalize Color** eyedropper (N) in one document and select the reference area (e.g., a color patch, skin-tone or gray card, etc) in the image in the Viewer.
6. The Pick field is updated with the selected color and the corresponding RGB values are listed alongside for the selected ICC Color Space Profile.
7. Click-on the **Apply Normalization** eyedropper, or toggle between the pickers using (Alt+N). This eyedropper will now be enabled in your second,



- open document.
- From the second, open document, click on the area in the destination image (i.e., that you want to apply the normalization correction to) with that document's **Apply Normalization** eyedropper. The correction is applied and the destination image is updated in the Viewer.

Normalizing skin tones

When normalizing skin tones it is of course essential to select the most appropriate area or region for a successful result. For corrections, avoid areas with dominant color such as blusher or eye-shadow and select the forehead, neck or forearm, for example. It's helpful to open the reference and destination image side by side, using, for example, the Set as Compare Variant option available from the Edit menu.

- Go to the **Normalize** tool.
- Open the reference image and the destination image side by side.
- Enable both **Exposure** and **White Balance** by adding a check-mark to the corresponding box.
- Click-on the **Pick Normalize Color** eyedropper (N) in the tool or from the cursor tools, and from the reference image, select an area of your model's skin that you want to match (e.g., a particular area from the model's neck).
- Click-on the **Apply Normalization** eyedropper, or toggle between the pickers using (Alt+N), and in the destination image, click on the same area and similar tone of the model's skin that you want to apply the normalization correction to (e.g., a particular area from the model's neck). (You will not be asked to name the target value or "pick", as in previous versions of Capture One.)
- The image will be updated in the Viewer with the correction applied.
- You can use this adjustment to copy and apply to other images in the same Session or Catalog, as well as between other open Sessions or Catalogs.



Resetting the color values

Capture One doesn't clear the values for the Pick Normalize Color and Apply Normalization eyedroppers, or the Color Selector, even after closing and restarting the application, and unlike the majority of tools it doesn't have a reset option that's usually accessed from the Action menu (...). Therefore, if you make a mistake, simply return to the Pick Normalize Color eyedropper and re-select a new color from the image in the Viewer. If you've manually set the wrong RGB/HSB values in the Color Selector, either re-enter the correct values, or click on Cancel to close the dialog and either re-open it, or select Pick Normalize Color eyedropper and start over.



Saving a preset

The Normalize tool allows you to save the various pick exposure and color (i.e., brightness, color hue and saturation) values as a User Preset. Under varying lighting conditions the tool provides a useful baseline. However, a preset is particularly useful when you repeatedly photograph subjects under the same lighting conditions or illuminants, and require the exposure and color to precisely match the reference values. Therefore, both the Pick and the Adjust values can be saved separately.

- Make a normalization correction for exposure or color (white balance), or both, as your workflow demands (see above for details).
- From the **Normalize** tool's title bar, click-on the Manage Presets icon (three-horizontal bars). The Manage Presets menu opens.
- Select **Save User Preset...** from the list. A Save User Preset dialog opens.
- Give the preset a descriptive name, and select **Save**.
- The User Preset is saved under the Manage Presets menu.



Applying a User Preset

After saving a User Preset you will find it listed in the Manage Presets drop-down menu of the Normalize tool. A normalization preset works slightly differently to other presets in Capture One, as it's not immediately applied upon

selection, instead you must proceed with a normalization correction using the Apply Normalization eyedropper. Note User Presets cannot be stacked, nor does the menu show which preset is currently selected, however, once selected it's displayed in the Pick field.

Note that User Presets saved using the earlier Skin Tone tool option of the White Balance tool in version 11.0 and earlier are migrated automatically to the new Normalize tool's Manage Preset menu. That tool's built-in presets are no longer available and, therefore, have not been migrated.

1. Select the image in the Browser that you want to apply the normalization correction to.
2. Go to the **Normalize** tool, and click on the **Manage Presets** menu icon (three horizontal bars) in the title-bar. The Manage Presets menu opens.
3. Select the relevant User Preset from the drop-down list.
4. The User Preset is selected as the chosen values and both the color patch and preset name is displayed in the Normalize panel in the Pick field.
5. Select the **Apply Normalization** eyedropper and click on an image in the same area, or area with a similar tone that was used to create the preset, if possible.
6. The adjustment is applied and the image is updated in the Viewer.

Selecting and applying skin tone presets

Previous versions of Capture One's White Balance panel had the option to select from a number of built-in skin tone presets and to create custom presets. Although that tool's built-in presets are no longer available, any custom presets that may have been created are migrated automatically to the new Normalize tool's preset menu.

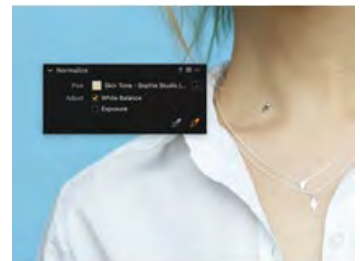
The process of selecting and applying migrated presets is the same as applying a User Preset. In general, though, you should only apply Skin Tone Presets to the same person, ideally selecting the same area and tonal region that was used to create it. For example, if the preset's pick or adjust was made in a highlight area on the forehead, it should be applied to the same or similar region.

1. Select the image from the Browser that you want to apply the Normalization correction to.
2. Go to the **Normalize** tool, and click on the Manage Presets menu icon in the title-bar. The Manage Presets menu opens.
3. Select the relevant skin tone preset from the drop-down list. The migrated preset is selected and both the color patch and values are updated, and the preset name is displayed in the Normalize tool adjacent to the **Pick** field.
4. Select the **Apply Normalization** eyedropper and click on the same area that was used to create the preset (e.g., the forehead, forearm, or leg, etc., taking note to avoid tonal variations between the original and the destination image, if possible).
5. The adjustment is applied and the image is updated in the Viewer.

Deleting a User Preset

When you want to tidy-up the Manage Presets menu and no longer require a User Preset, you can remove it. An option also enables you to delete all of the presets. Note that these actions are permanent, so if you've invested some time in acquiring these then deleting them may not be appropriate. If you still have the source images, you can of course recreate the Presets.

1. Open the Color Inspector and go to the Normalize tool.
2. Click on the Manage Presets menu icon (three horizontal bars) in the title-bar. The Manage Presets menu opens.
3. Select **Delete User Presets** from the Manage folder menu and, from the drop-down list, select the Preset you want to delete. Alternatively, select



- Delete All User Presets to remove them all.
- 4. A warning dialog opens asking you to confirm your choice.
- 5. Select **Cancel** to abandon and return or **Delete** to continue. **Warning!** Deleting is permanent.

About the Color Selector

The Normalize tool has a Color Selector dialog that enables you to manually override or fine-tune the picked reference color.

A Profile drop-down menu allows you to specify a particular color space and evaluate the RGB/HSB values, that's independent of the output color space profile used for the picked color, which in turn is determined by the selected Process Recipe.

The drop-down allows you to select between two common color space profiles bundled with Capture One; Adobe RGB and sRGB, with the further option; Show All, enabling you to access and to select from all of your system profiles.

The color window to the right initially displays the picked color and color values based on the currently selected recipe's output color space profile, shown above the color window. Selecting a new color space profile using the Profile menu fly-out allows you to proof the converted color in the palette and displays the corresponding color values beneath.

Text fields are provided for RGB/HSB values if you want to fine-tune the values or manually enter them to match a reference target's values. The window will be immediately updated with the new color.

When selecting OK, those new values are used to update the Apply Normalization eyedropper in Normalize tool.



Specifying color values by number

The Normalize tool has a custom color picker dialog that enables the user to add custom RGB/HSB values for a selected color space. This is useful when you're working in a specific color space and you want to apply certain values to the image using a different space, or even fine tune them in the same color space.

For example, if you're working on an image with consistent lighting between captures in Adobe RGB and want to apply specific color values to an near white area to neutralize the highlights, you can specify 230, 230, 230, for instance, and apply those values directly.

1. Open the Color inspector, and go to the **Normalize** tool.
2. Click on the color patch or Action (...) icon, adjacent to the **Pick** field. The Color Selector dialog opens.
3. Click-on the **Profile** field and select a profile from the list. Adobe RGB and sRGB are the defaults, however, you can select from any of the profiles on your system. (If not listed, select Show All, to display the system profiles.)
4. In the RGB or HSB fields, add the relevant color value numbers.
5. Click-on **OK** to select and update the color values.
6. Click-on the **Apply Normalization** eyedropper, or toggle between the pickers using (Alt+N), and click on the area in the image to apply the correction to (e.g., the white patch in the reference chart).
7. When processing the image for output, remember to select the color space profile as chosen in the Color Selector (i.e., select the same color space profile in the Process Recipe).



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Color Balance Pro

[COLOR BALANCE](#) / [WHITE BALANCE](#) / [BLACK AND WHITE](#) / [SKIN TONE](#)

The Color Balance tool enables you to fine-tune color easily, and offers individual control over the shadow, mid-tone and highlight areas of the image.

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Introduction

The Color Balance tool enables precise control of colors, hue and saturation within an image, and like many of the adjustment tools in Capture One, it can also be used when making localized adjustments in conjunction with the Layers tool. The tool includes a Master color wheel that replicates Capture One's original tool in functionality and then options with separate color wheels for Shadow, Mid-tone and Highlight areas.

The 3-Way option displays all three Shadow, Mid-tone and Highlight color wheels for convenience, while separate, larger color wheels may be displayed independently. If space allows, the individual larger color wheels can be displayed simultaneously by triplicating the tool in the inspector, and each can be removed to float anywhere within the workspace, or even on a second monitor. When floating, the tool can be resized and can even retain a slightly enlarged size when replaced in the inspector.

Adjustments using these tools are highly specific. For example, adjustments made to highlight areas will affect mid-tones slightly but will not alter the shadows. In addition, the three new wheels have adjustment sliders for saturation and lightness. The latter slider is used for tinting (lightening) and shading (darkening) hues in the selected color range. Adjustment of lightness maintains both hue and saturation, while lightening the highlights maintains fine gradations with a gentle roll-off.

Although the saturation slider duplicates one of the functions of the color wheel, it has been provided so that it can be adjusted independently of the hue. This allows greater precision and prevents inadvertent hue changes during adjustment.

An accurate [white balance](#) should be set before you get started. Then color adjustments can be applied to create the desired mood for an image. Like other settings in Capture One, these changes can be saved as a [Preset](#) and applied to additional images.

Adjust the color balance globally

In this mode, the tool replicates the previous color balance tool and is compatible with settings made in Capture One 5.0 and later. Note, as a result the lightness slider is deliberately disabled.

1. Go to the [Color Tool Tab](#) and locate the Color Balance tool.



2. Click on the **Master** tab and drag the pointer (the circular orange icon located in the center by default) around Master Color Wheel to set the desired color **hue**. Moving the pointer away from the center increases **saturation**.
3. Fine-tune the **hue** by clicking and dragging the tab on the wheel, and click and drag the slider tab to the left of the wheel to adjust the **saturation** (the color wheel pointer will be updated automatically).



Adjust color balance in the shadow, mid-tone or highlight areas

Setting the color balance separately in the shadows, mid-tones and highlights can be achieved using either the individual color wheels in the 3-Way tool or the single wheels displayed separately under their respective tabs. Functionally, they're the same tools, and adjusting the color wheels in the 3-Way tool will update the other wheels. The smaller 3-Way color wheels are offered for convenience, however the much larger individual color wheels enable greater precision.



Although there's no set routine for adjusting the color wheels, it's a good idea to start with the shadows, then highlights or mid-tones, and as an optional step fine-tune the overall balance with the Master setting. Some zooming in and out of the image will be of benefit for precise adjustment, especially with highlights where subtle use of the color balance tool is recommended.

First, select the hue you want to add first either by clicking in the color wheel, or by clicking and dragging the tab to the chosen hue. Then adjust Saturation using the slider to maintain the hue selection, followed by the density by using the Lightness slider to suit. Note all sliders can be adjusted using a mouse's scroll wheel. The tool ships with a number of presets, so you can use one of these as an initial setting, and then fine-tune to taste. See below for more information.

1. Navigate to the **Color** inspector and go to the **Color Balance** tool.
2. Click on the 3-Way tab to display all three color wheels, or the separate Shadow, Mid-tone or High tab to display the individual, larger color wheels.
3. Set the desired **Hue** by clicking and dragging the tab around the circumference, or if you prefer, simply click and drag the circular orange pointer (located in the center by default) within the appropriate wheel. Moving the pointer away from the center towards the perimeter increases saturation.
4. Fine-tune the **Hue**, if desired, by clicking on the wheel's tab and dragging towards the chosen hue, while observing the image in the Viewer.
5. Adjust the **Saturation** using the slider to maintain the chosen hue (the color wheel's pointer will be updated automatically).
6. Click and drag the tab on **Lightness** slider to adjust the density to taste.
7. Optional. After individual tonal adjustments, adjust the **Master** color wheel slightly to fine-tune the overall color balance

Customizing the Color Balance tool

When making adjustments with the Color Balance tool you can enlarge the panel, so that it's a little easier to make ultra-fine adjustments. You can pull the tool from the inspector by clicking in the tool's title-bar and dragging to leave it to float in the Viewer.

If you use the tool frequently, consider adding a dedicated Inspector for color grading. If you triplicate the tool in the new Inspector, you can display individual panels for Highlights, Mid-tones and Shadow. With separate panels for each you can avoid moving between tabs for the larger color wheels.

For more information, see the section on Adding a Custom Tool-Tab.



Creating localized split tones

As the Color Balance tool can be used to make localized adjustments, it's ideal to tone highlights, mid-tones and shadows when working in monochrome conversions. Note that, only the highlight, mid-tone, and shadow color wheels can be used for producing split-toned images. When adjusting the Master color wheel in a monochrome conversion, the color balance adjustment is in-effect applied before conversion.

Note also, when adjustments have already been made (i.e., prior to mono conversion), it is advisable first to make a clone of your color image (ctrl/right-click > clone variant) and optimize the Levels and Curves adjustment after the conversion.

1. Select an image in the browser.
2. Optional. Create a clone (ctrl/right-click > clone variant).
3. Go to the **Black and White** tool and from either tab, select enable Black & White with a checkmark. The color image will be converted to monochrome.
4. Optional. Optimize Levels and Curves for the conversion.
5. Create an adjustment layer using the **Layers** tool. For example, select the Gradient mask (G) and apply to the area to be adjusted on the image.
6. With the layer selected, go to the Color Balance tool and adjust the highlight, mid-tone and shadow wheels as required. The mono image will be updated with the adjusted color-tones.



Resetting the color wheels

When you want to reset the Color Balance tool, Capture One has a couple of options to enable you to select the appropriate color wheel, as simply resetting the tool will reset each one regardless of the tab selected. You can also switch temporarily between the adjusted color and unmodified setting, to view the applied effect.

1. To reset the adjustments across all four color wheels simultaneously, click on the local reset button (curved arrow icon) in the tool's title-bar. A warning dialog will be displayed when two or more variants are selected.
2. To reset the selected tab only, press the cmd/ctrl key then click-on the local reset button. When the 3-Way tab is selected, all three color wheels will be simultaneously reset. This option will prevent the Master adjustment from being reset.
3. To temporarily switch between the adjusted color and the unmodified setting, press the opt/alt key and click on the reset button.



Save as a preset

1. Move the pointer around the Color Wheel to alter the color balance of an image. Fine-tune the Color Wheel selection using the **Hue**, **Saturation** and **Lightness** sliders (as detailed above).
2. Go to the **Manage Presets** icon to save a Color Balance for later use.

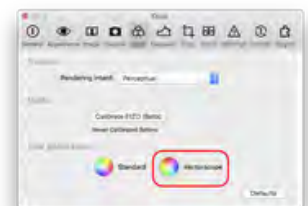
Find out more about [Presets](#).





Changing the color wheel layout

Capture One's color wheels used in the Color Balance tool can be displayed with the chroma hue reference phase rotated 90-degrees to imitate a Vectorscope layout, as found on high-end video-editing software. Experience with this layout, with red near to the top, should be of benefit to anyone working with video-editing software. Note also that the lightness and saturation adjustment sliders are exchanged in position.


1. Go to Capture One > Preferences (Mac) or Edit > Preferences (Windows). The Preferences dialog box opens.
2. Click on the Color tool tab.



- 
3. Go to Color Wheels section and select the layout from the two options. Red to the right is the default. Red close to the top imitates a typical Vectorscope layout. The selection is made without the need to restart Capture One.
 4. To return to the default selection, repeat from step 1.



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Working with the Color Editor

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The Color Editor enables you to select and adjust a narrow color range without affecting other colors in an image.

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Overview

Capture One's Color Editor enables you to select all the colors and adjust them equally or to select and adjust a specific color, or narrow range of colors, without affecting other, unrelated, colors in the image. Thus, it can be used to enhance or subdue colors selectively, used creatively to alter from one color to another, or correct color casts such as those produced under artificial light. More specialized features include the selection of highly targeted colors, such as skin tones with the ability to enhance and blend them for lustrous-looking results, as well as options to make masks from a color selection, and to save precisely made adjustments as ICC color profiles.

Located under the Color inspector, the Color Editor is available in three modes: Basic, Advanced and Skin Tone, with each mode accessed from the tabs in the tool. All three modes adopt an easy to use Color Picker tool, allowing you to target the color you want to correct. In addition, a 2-D color wheel provides confirmation of the chosen color and a narrow range of related colors.

The color wheel places fully-saturated primary and secondary colors around a ring, ranging from red, through yellow, green, and blue, finally returning to red again. A third axis, not shown on a 2-D wheel, represents lightness.

All three selection modes of the Color Editor enable shifting of the chosen color around the three axes, using Hue, Saturation, and Lightness sliders. The Hue slider adjusts the selected color or color range towards another. For example, if you select blue, moving the slider to the left shifts the hue clockwise around the wheel towards green, while a move to the right will shift the hue in the other direction, towards red.

The Saturation slider adjusts the intensity, or purity of the selected color or color range. Moving the slider to the left desaturates the chosen colors, in effect moving them towards the center of the wheel, while adjusting the slider to the right increases saturation. The Lightness slider alters the brightness of the selected color range. A fourth parameter, Smoothness, adjusts the degree of change between the selected color range and related colors, ensuring that colors get a natural look with smooth transitions between them.

Indicated by a wire frame, the selection, or slice, can be adjusted to make the color range more or less targeted, depending on the desired effect. Handles are incorporated for adjustment and the panel can be dragged away from



the inspector and expanded for even greater precision and control.

Created for standard editing tasks, the Color Editor's Basic mode permits a maximum of up to only one color edit in each segment (red, green, blue, cyan, magenta, yellow). The Advanced mode provides a much more specialized tool, permitting up to 30 individual colors to be corrected per image. It also has more control over the color and saturation range.

Through the addition of three Uniformity sliders, the Skin Tone mode offers more tools to even out, or homogenize, color, and is useful for correcting unwanted color variation, particularly when images have had strong global contrast and high saturation adjustments applied, or when simply correcting patchy skin tones or the uneven application of make-up.

About local adjustments

Like many of the adjustment tools in Capture One, the Color Editor tool can be used in conjunction with the Layers tool for localized adjustment. Although the Basic mode is disabled the other two modes work in exactly the same way. So the Advanced mode can be used when adjusting a color under mixed lighting, for example, and with the Skin Tone mode, if you've captured a group of people in an image, using masks for skin areas on different layers enables you to adjust and blend tones separately for each person. You can also create masks from color selections directly within the Color Editor, enabling you to apply other adjustments beyond color, saturation, lightness, and uniformity.

Note that, if the masks overlap on different layers, the results are accumulative when making localized color adjustments using the Color Editor. For example, when moving the Hue slider one way towards another color on one layer, the effect will be offset when moving the slider the opposite way on another layer. Alternatively, moving the slider the same way on both layers will, in effect, move the hue further around the color wheel, resulting in a larger hue shift. Find out more information on Local Adjustments.



Adjusting a color range (Basic)

Select the color range for adjustment using either the Color Picker tool or by clicking on the range, or slice, in the 2-D color wheel. Up to 6 individual color corrections can be made. Note you can select individual color ranges from the menu below the sliders instead, or choose the global (small, multi-colored wheel) option when wanting to adjust all the colors at once (see below for more details). After selecting the range, the color is adjusted using the sliders. The Saturation slider allows adjustment at up to $\pm 80\%$.



1. Go to the Color inspector.
2. Choose the **Basic** tab in the **Color Editor** tool.
3. Click on the **Color Picker** (see circled) and select a color from the image in the Viewer that is in need of correction. The targeted color range is displayed on the 2-D color wheel.
4. Check mark **View selected color range** (see circled) to isolate the selected color range by automatically desaturating all other colors in the Viewer.
5. The color wheel's active selection is adjustable. Click and drag the two handles (located on the outer edge of the color slice) to narrow or widen the color range.
6. Adjust the **Smoothness** slider as desired. The range of shading extending beyond the active perimeter of the selection denotes how smooth the transition will be between colors. The wider the range, the smoother the transition.
7. Adjust the **Hue (color)**, **Saturation** and **Lightness** sliders as desired. The color(s) will be adjusted instantly in the Viewer. The correction adjustment can also be assessed in the "before and after" panel swatches at the bottom of the dialog.

Removing color casts

The Basic Color Editor can quickly adjust all the colors in an image, instead of a narrow range, thereby correcting a color shift affecting the whole image. It is particularly useful, for example, when removing a color cast from artificial lighting. Use a Layer mask when correcting localized areas of an image. Note the image displayed shows the color wheel phase rotated 90-degrees, as per typical vectorscope layout used in high-end video color-grading software. It helps visualize the hue (color) wheel rotation involved when moving the Hue slider to shift to warmer or cooler colors.



1. Go to the **Color** inspector.
2. Select the **Basic** tab in the Color Editor tool.
3. To select all the colors in the image, click on the bar with multi-colored wheel icon, located beneath the preset color selections. Ensure the bar is enabled (with a checkmark). The Color Wheel changes from a single wheel to display an inner (existing color) and outer (shifted color) wheel.
4. Adjust the **Hue** slider while observing the effect on screen. Note moving the slider to the left shifts colors towards warmer colors (i.e., red), or to the right towards cooler colors (i.e., blue).
5. Adjust the **Saturation** slider to suit. Note Lightness and Smoothness sliders are disabled.

Adjusting individual colors (Advanced) ^{Pro}

The Advanced mode works in a similar way to that of the Basic mode, however, the color picker's selection range is more targeted and, once selected, it offers more control. Up to 30 individual color range corrections may be made to a single image. Note the selection is shown as the wire frame in the 2-D color wheel, along with direction arrows to guide adjustment.



1. Go to the Color inspector.
2. Choose the **Advanced** tab in the Color Editor tool.
3. Use the **Color Picker** (see circled) to select a color from the image in the Viewer that is in need of correction.
4. Check mark **View selected color range** (see circled) range to automatically desaturate all non-selected colors in the Viewer and preview the color range to be adjusted.
5. Pull and push the outer handles to alter the selection range. Fine tune the hue pick point using the inner handle, if necessary.
6. Adjust the chosen color individually using the **Smoothness**, **Hue rotation**, **Saturation** and **Lightness** sliders. The color will be adjusted instantly in the Viewer. The adjustment can also be assessed in the "before and after" panel swatches at the bottom of the dialog.
7. Add more adjustments by making additional selections with the color picker or by pressing the (+) icon.
8. To delete a color edit, first highlight the selection in the list and press the (-) icon.
9. To view the effect of an individual edit, highlight the selection in the list and then toggle the check mark on and off.

Adjust all but one color ^{Pro}

The Color Editor's Advanced mode can be used to adjust all of the colors in the image except one, using the Invert Slice option. This can be useful when, for example, you want to preserve skin tones and need to adjust the color of everything else in the image.



1. Go to the **Color Tool Tab**.
2. Choose the **Advanced** tab in the **Color Editor** tool.
3. Use the **Color Picker** to select a color from the image in the **Viewer** that is in need of correction.
4. Check mark **View Selected Color** range to automatically desaturate all the other colors in the Viewer.
5. Pull and push the border handles to alter the adjustable area.
6. Adjust the **Smoothness** slider.
7. Press the **Invert Slice** icon. (See circled).
8. Adjust the chosen color(s) using the **Hue rotation**, **Saturation** and

- Lightness** sliders. The color(s) will be adjusted instantly in the Viewer.
9. Add more adjustments by pressing the + icon.

Adjusting skin tones ^{Pro}

Like the Basic and Advanced modes, the Color Editor's Skin Tone mode is both intuitive and easy to use. It is also extremely powerful and can be used to make skin tones look brighter, natural and more pleasing but it can also be used to balance patchy areas of skin or the uneven application of make-up.

While the HSL amount sliders in the Skin Tone mode can be used in the same way as the other Color Editor tools, its real power lies in the uniformity sliders. However, the concept behind the uniformity tool works slightly differently to the other modes.

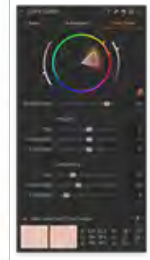
As with the Basic and Advanced color editor workflow, the color to be corrected must be defined to base the adjustments on. Unlike the usual workflow, however, you should aim to pick the color you wish to keep and expand the range using the wire frame to include hues which appear to be unwanted (e.g., for Caucasian skin, pick a neutral tone, and expand the range to the reds and yellows).

The uniformity tool uses this color pick in the hue selection as a reference. As the sliders are moved to the right, the colors in the range encompassed by the wire frame are adjusted towards the reference point, creating a more uniform color. A rough local adjustment mask on the skin tone area can be used to prevent the uniformity adjustment from affecting other areas of the image with the same color.

In addition to the 2-D color wheel's built-in Hue slider, Saturation and Lightness sliders, located left and right respectively, can be used to fine tune the reference point (e.g., to warm, or to cool down, the skin tone). Note that the hue and saturation range automatically adjust to compensate for the repositioning of the respective reference point.

Note also that while the Skin Tone mode has been optimized for skin tones, it can be used for editing any color.

1. Go to the [Color Tool Tab](#).
2. Choose the **Skin Tone** tab in the **Color Editor** tool.
3. Use the **Color Picker** to select a color from the image in the **Viewer** that is in need of correction. (It may help by enlarging an area of the face/skin to a 100% image view).
4. Adjust the **Smoothness** slider as necessary. Adjustment ensures that selectively changed colors get a natural look with smooth transitions.
5. Refine the color range selection in the 2-D color wheel by clicking and dragging the individual components of the wire frame. A smaller selection range is more targeted, however working in larger areas of color will avoid giving an image an unnatural appearance. Note when removed from the dock the Color Editor is scalable for improved precision.
6. Refine the color pick, or reference point, using the 2-D color wheel's Hue, Saturation and Lightness sliders, if necessary. Note the wheel's Hue slider is built-in and adjusted using the center handle.
7. Adjust the chosen color(s) using the **Hue**, **Saturation**, **Lightness Amount** and **Uniformity** sliders. Dragging the **Uniformity** sliders to the right adjusts the Hue, Saturation and Lightness in the selection range closer to that of the picked color. The color(s) will be adjusted instantly in the Viewer.



Save color scheme as ICC profile ^{Pro}

You can use the Color Editor tool to create custom ICC profiles for any camera model, and they can be applied to future editing sessions, like presets. ICC profiles created in Capture One can also be transferred to third party applications. This ensures consistent color as the new profile can be adopted throughout the entire workflow.

1. [Adjust all colors](#), as desired.
2. Press the presets icon and choose **Save as ICC Profile...**
3. Name the new ICC profile. The new ICC profile is now stored in the Profiles folder.



4. Add the new ICC profile to other images from the **Base Characteristics** tool in the **ICC Profile** drop down menu. The ICC profile is found in the **Other** section.

Save color scheme as preset

Color edits made with the Basic, Advanced and Skin Tone modes can be saved as a preset and applied to other images.

1. **Adjust all colors**, as desired.
2. Press the **Manage Presets** icon and choose **Save User Preset...** from the menu.
3. Check mark the desired preset adjustments and press **Save**.
4. Name the new Color Preset profile. The new Color Preset is now stored in the **Color Editor** folder based in the Capture One Presets folder.
5. Access and apply the new Color Preset to other images from the **Manage Presets** menu. (The new Color Preset can be found under the **User Presets** heading).



Creating a mask from a color selection

You can create a mask by a color range using any of the three selection modes available to the Color Editor tool. This option works well for a broad range of selection tasks from subjects with difficult to brush edges to those with blocks of color with clearly defined borders, however while that helps to target the selection for the creation of the mask, its success also depends on what kind of adjustment is to be applied. For example, a negative clarity adjustment used to smooth skin-tones doesn't require a precise mask, whereas an exposure adjustment typically requires a much more targeted selection. Note that, like any mask in Capture One, it can be tidied up using the brush easer (E).

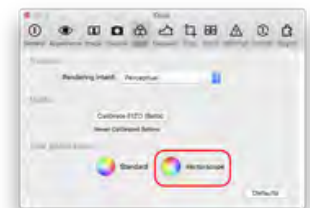
1. Go to the **Color Editor** tool and select the color or area intended for local adjustment on the image using the Color Editor tool's color picker (pipette icon).
2. When greater precision is required use the color picker from the **Advanced** or **Skin Tone** selection options or cursor group. To display the selected color range in the Viewer, click on View selected color range options.
3. With the color selection highlighted in the Color Editor, click on the Color Editor tool's Action menu button (... icon), and select **Create Masked Layer from Selection**. A dialog opens showing the progress of the creation of the mask.
4. A new separate adjustment layer is created in the Layers tool, complete with a corresponding mask for that color selection.
5. Tidy up areas not needed using the Erase brush (E).
6. This mask can now be used to apply adjustments to.



Changing the color wheel layout

Capture One's color wheels used in the Color Editor tool can be displayed with the chroma hue reference phase rotated 90-degrees to imitate a Vectorscope layout, as found on high-end video-editing software. Experience with this layout, with red near to the top, should be of benefit to anyone working regularly with video-editing software.

1. Go to Capture One > Preferences (Mac) or Edit > Preferences (Windows). The Preferences dialog box opens.
2. Click on the Color tool tab.
3. Go to Color Wheels section and select the layout from the two options. Red to the right is the default. Red close to the top imitates a typical Vectorscope layout. The selection is made without the need to restart Capture One.
4. To return to the default selection, repeat from step 1.



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Black & White

BLACK AND WHITE / BW / RGB-READOUTS / COLOR BALANCE

The Black & White tool enables users to convert images into razor sharp monotone photos.

- [Introduction](#)
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- [Learn more](#)

Introduction

The Black & White tool can be used to give portraits a classic dramatic look or help create deep contrasts in nature and landscape imagery. It can be found in the [Color Tool Tab](#). If it has been removed or you would prefer it to be located in another tool tab, simply right click on the Tool Tabs tool bar and select Add Tool>Black & White. Alternatively, you can add a dedicated [Black and White Tool Tab](#) that features all the essential tools together to make producing black and white images even easier.



Video tutorial: Black and White

Learn about Black and White conversion in this video tutorial. (Click on the icon to the right). Capture One Pro enables you to easily convert your images to black & white with powerful sliders that let you precisely adjust the color channels and create split toning effects when you convert to grayscale.



Adjust black and white tones in a color image file

1. Select the intended image for black and white conversion from the [Browser](#).
2. Go to the **Black & White** tool in the [Color Tool Tab](#).
3. Check mark the **Enable Black & White** box.
4. Adjust the color sliders. Use the Red slider to alter all tones mapped to red in the original image and so on.



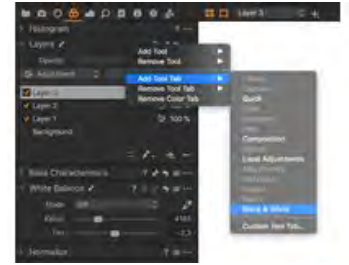
Create a split tone image

1. Select the intended split tone image from the [Browser](#).
2. Go to the **Black & White** tool in the [Color Tool Tab](#).
3. Select the **Split Tones** tab
4. Check mark the **Enable Black & White** box.
5. Adjust the Hue/Saturation slider color values for the **Highlights** and **Shadows** as desired.



Learn more

- Add a specific Black and White Tool Tab. Right click on the [Tool Tabs bar](#) and select Add Tool>Black & White. (See image left). This Tool Tab puts all the essential tools in one place to make monotone conversions and image adjustments quick and easy.
- When a desirable look is achieved, save it as a [User Preset](#), in the manage presets menu.



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Displaying Color Values^{Pro}

RGB-READOUTS / BLACK AND WHITE / SKIN TONE

Capture One can display multiple RGB, CMYK or Lab color readouts at various points in an image.

- [Working with color values](#)
- [About Lab color values](#)
- [Selecting an appropriate Lab implementation](#)
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Working with color values

Capture One Pro can display RGB and Lab color values as well as CMYK ink percentages. In all cases the values shown are dependent on the color space profile, set in the chosen Process Recipe or selected from the Proof Profile option from the View menu.

Capture One always displays the color values of the pixels under the cursor tool in the Viewer's tool bar, regardless of the selected cursor. The area of the cursor's sample size remains the same between cursors and corresponds to that used by the Color Correction Picker (eyedropper) in the Color Editor tool. However, greater accuracy can be attained with the cursor readouts when the magnification of the Viewer is increased.

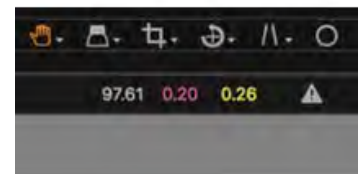
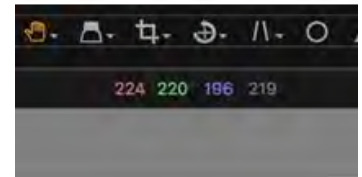
In addition to the continuously updating cursor readouts, Capture One Pro can permanently display fixed sample points, or anchored readouts, at up to 20 different locations in an image. Anchored readouts are always processed at 100% magnification and are typically more accurate than the cursor readouts (even when they're used at that zoom level).

Although Capture One adopts a color space with a large gamut internally, RGB values, when shown, are converted to 8-bit for each channel, with 256 values from 0 (black) to 255 (white). If a CMYK profile is selected using either the process recipe or when using the Proof Profile option, Capture One will convert the values to the appropriate CMYK ink percentages.

When using RGB or Lab color values to assess a reference reflectance target (i.e., a color chart), please refer to the color chart's documentation for the color space used to define the color values. Standard working color spaces such as sRGB, Adobe RGB, and 16-bit ProPhoto RGB, or eciRGB (2008) are often specified, as are values for the CIELAB, or Lab, reference color space.

About Lab color values

The Lab color space is often the preferred choice when color calibrating using color values alone, particularly when measuring and matching colors from reference targets. Lab consists of a Lightness coordinate (0 equals black, and 100 equals white) and two color components, a and b. The a component contains the range of red (a+) to green (a-), while the second, b, contains colors blue (b+) through yellow (b-). Neutrals occur where a and b values are equal to zero. Thus, neutral mid-gray is L = 50, a = 0, and b = 0.



Although the Lab color space is a useful space for comparison between applications, it's typical practice to supply output files in an RGB color space when further analysis and verification is required. Therefore, the displayed Lab values in Capture One are converted from the RGB color space selected as one of the parameters of the output Process Recipe. However, as color space profiles assigned to images for output can be interpreted differently by third-party applications when converting to Lab values, Capture One supports several Lab implementations to match the color management interpretations of these utilities. See the section on [LAB Readouts](#) for more details.

Selecting an appropriate Lab implementation ^{Pro}

Color target reference values can be specified in a standard RGB color space but are more usually specified in the Lab (i.e., CIE 1976 (L*, a*, b*) or CIELAB) color space. In Capture One, Lab color values are based on a conversion of the selected output RGB color space profile in the ICC Profile field of the Process Recipe, or the RGB profile selected using the Proof Profile option. Please ensure the appropriate color space profile is selected.

Note that, RGB profiles are open to interpretation, even those specified to ICC standards. Therefore, when comparing Lab values in Capture One with the RGB output file in third-party applications such as Adobe Photoshop, or specific image analysis software including Picturae Delt.ae, CMS (by Marti Maria) or ISA GoldenThread, several implementations for Lab values are supported.



1. From the main menu, select View > Lab Readout, then choose from the following:
 - o **Off** - Select this option to return to displaying RGB/CMYK values (depending on the output profile selected).
 - o **Generic (D50)** - Lab conversion using D50 as the white-point. This option is compatible with the majority of 3rd party software, including Delta.ae (by Picturae) and LCMS (by Marti Maria).
 - o **Generic (media white)** - Lab conversion with the media white (i.e., native white point of the color space) specified in the profile. To match colors and avoid chromatic adaptation (either as perceived colors when viewed or as the difference in conversion between D50 and D65) when a monitor is calibrated for sRGB or AdobeRGB (1998), the surface color of the test patch must be measured with respect to the D65 white point.
 - o **Adobe (generic)** - Lab conversion values compatible with the Adobe Color Engine (ACE). Select this for the best match with Adobe Photoshop for most color profiles. Adobe applies slope-limiting on pure-gamma profiles such as Adobe RGB (1998) and ProPhoto RGB (ROMM), therefore in Adobe Photoshop, please select Relative Colorimetric intent, disable Black-Point Compensation (BPC) and enable Use Dither.
 - o **Adobe (neutral)** - Lab conversion compatible with the Adobe Color Engine (ACE) for sRGB. Select this option for the most accurate match using ACE with an sRGB profile. Note although similar to the generic option, the Phase One Color Engine defines the white point (255, 255, 255) as neutral, thereby allowing ACE to recognize the sRGB profile as a faithful interpretation.
 - o **GoldenThread (ICC)** - Lab conversion values are compatible with GoldenThread software, by Image Science Associates (ISA). Select this option for compatibility with the app's image analysis based on an ICC profile.
 - o **GoldenThread (standard)** - Lab conversion values are compatible with GoldenThread software, by Image Science Associates. Select this option for compatibility with analysis based on a standard color space. Note that the output profile in Capture One (selected in the Process Recipe) must match the option used in the analysis.

- When one of the above options is selected, the cursor in use displays the values from a single location in the image in the Viewer's toolbar.
- When you want to permanently display the color values at more than one location, select the **Add Color Readout** cursor from the cursor toolbar and click on the image to anchor the readout.

Selecting the output space using the recipe

When using Capture One readouts to critically compare the numerical values of a color chart (i.e., a reflectance target), it is important that the standardized light source used for the chart's values is the same as that used during capture, that's because the chart's color values for a certain RGB color space are based on the illuminant. Therefore, before measuring RGB values, it is important to adopt a similar working RGB space to the chart's RGB color space values. In Capture One, this is the output color space in-effect, and is determined by the selected Process Recipe, by default. Note that, although this is initially selected from the list in the Process Recipes panel, the actual parameters used to process the results in the Viewer and for eventual output as a processed image are displayed below in the Process Recipe tool.



- Go to the Output inspector.
- From the **Process Recipes** panel, select the required recipe from the list. The **Process Recipe** panel beneath is populated with the selected recipe's parameters.
- From the Process Recipe's **Basic** tab, verify or select the required RGB color space profile from the **ICC Profile** drop-down menu. For example, select the same RGB color space profile (e.g., sRGB) as the color space specified for the values in the color chart's documentation.

Selecting the output space when proofing^{Pro}

Before measuring RGB values, it is important to verify the working space. In Capture One, this is the output color space in-effect, which is determined by the selected Process Recipe by default. However, you can override that using the Proof Profile option available from the View menu. This allows you to measure values in one color space and output a file in another color space. For example, you can proof in ProPhotoRGB and output a file in sRGB or CMYK using the appropriate ICC profile, set in the selected recipe. Note that, color editing should always be performed in an RGB color space (RGB mode) before processing a file to CMYK.



- Select an image in the browser.
- Go to the main menu, select View > Proof Profile > RGB Output/CMYK Output > [profile name] When enabled, a checkmark will be displayed next to the profile.
- The image in the browser will now be soft-proofed to the Viewer in the chosen color space. Note when processing the image, the color space profile set in the selected process recipe will be used instead. (You can verify the selected recipe is being used to determine the output file's color space during processing, select View > Proof Profile > Output Recipe Profiles > Selected Recipe).

Verifying the process recipe^{Pro}

In Capture One, the Process Recipe is used to specify both the working space and the destination, or output, color space. When measuring color targets by their reference RGB color values, for example, it is important that the output space matches that the space specified for the values. You can verify the Process Recipe tool is being used to determine the destination space or output color space.

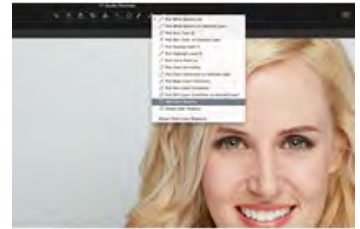


- Go to the main menu, select View > Proof Profile > Output Recipe Profiles > Selected Recipe. When enabled, a checkmark will be displayed next to the option.

Setting multiple readouts

Capture One can anchor color value readouts at multiple locations within an image in the Viewer. There are several potential uses for this feature, however, it is particularly useful when used to compare color values of a color target against the manufacturer's reference values, or measured values.

1. Select an image from the Browser.
2. Ensure the image is in the appropriate color space, selected either in the Profile Recipe, or from the Proof Profile option (View > Proof Profile > RGB/CMYK Output profiles). Note when using the Profile Recipe, ensure the selected recipe is being used (View > Proof Profile > Output Recipe Profiles > Selected Recipe).
3. Verify or select the appropriate readout type, from the main menu > View > Lab Readout > Off (i.e., RGB/CMYK) / or select the appropriate Lab implementation from the list.
4. Go the cursor toolbar and choose the Add Color Readout cursor from the Color Cursor group (third from right).
5. If you intend to switch to another cursor and require the readouts to be displayed on the image, repeat step 4 and select **Always Show Color Readouts** option to enable (with a checkmark).
6. Click on the image in the Viewer to select and anchor the readout.
7. Click and drag a readout to move its position. The selected display will be highlighted with an orange border. Values are constantly updated during re-positioning.



Displaying readouts on multiple images

Capture One can display color readouts simultaneously on multiple images. This is ideal when comparing two variants of the same image that differ only by their color. If you have more than two variants of the same image, the Compare Variant feature is a useful way of comparing one reference image with the group, one image at a time.

1. Select an image from the Browser.
2. Ensure the image is in the appropriate color space, selected either in the Profile Recipe, or from the Proof Profile option (View > Proof Profile > RGB/CMYK Output profiles).
3. Verify or select the appropriate readout type, from the main menu > View > Lab Readout > Off (i.e., RGB/CMYK) / or select the appropriate Lab implementation from the list.
4. Go the cursor toolbar and choose the Add Color Readout cursor from the Color Cursor group (third from right).
5. Click on the image in the Viewer to select and anchor the readouts.
6. From the main menu, select Edit > Set as Compare Variant. (Ensure the Viewer is in Multi-View mode.) The subsequent image in the Browser session will be displayed alongside.
7. Use Up/Down arrow keyboard shortcuts to navigate the Browser session as appropriate.

Deleting readouts

1. Select **Delete Color Readout** from the Color Cursor group drop-down menu. Now click on any Readouts that you want to remove.
2. Alternatively, position the readout cursor above the readout and press opt/alt-click to delete it.
3. Pressing shift while deleting a readout, will remove all the readouts at once.



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Histograms

The histogram is one of the most important tools to master in your digital workflow, from the point of capture and subsequent editing and on to output. Capture One has several histograms and each one portrays the tonal distribution of an image a different stages in the your digital workflow. Find out how to read them and use them to your advantage.

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About Histograms

- About histograms

About histograms

Capture One has four histogram panels, and their significance when evaluating the tonal characteristics of an image at different steps from the capture and adjustment prior to output should not be underestimated. Each of the histograms are similar in that they display the frequency of pixels in the vertical (y) axis, against their separate color (Red, Green, Blue) and luminance values along the horizontal (x) axis.

In general terms, an optimal histogram should display a full range of tones without being excessively bunched with spikes at either end. Any pixels captured at or adjusted beyond that range have no tonal information, and thus no detail and are said to be clipped. The histogram can also inform you of subtly light or dark images, under- or overexposure, or when bunched in the center with a long comb either side - when there's a lack of contrast.

Although the histograms are alike in Capture One, each one reflects the distribution or tonal range of those pixels at certain stages in the processing pipeline:

Exposure Evaluation: The Exposure Evaluation tool shows the actual RAW data information as shot in camera together with the selected Film Curve and the White balance/Tint. The Exposure Evaluation histogram only changes if a crop is applied or a Film Curve is changed or if white balance/tint changes. No other adjustments will be reflected in the tool.

Levels histogram: The Levels tool takes more adjustments into account. Adding exposure, contrast, saturation, brightness, HDR, Vignetting and Clarity settings to the Levels histogram. However, it excludes itself from the displayed values. This enables the user to adjust the brightness from darkest pixels to the brightest pixels and adjusting the midtones or inverting the image. The RGB Channel modes also enables to correct for color shifts between the channels.

Curve histogram: Similar to the histogram in the Levels tool, however this one will also reflect any adjustments done to the black and white point (set in the Levels tool with Pick Shadow Level and Pick Highlight Level cursors).

Histogram tool: The Histogram tool reflects what you see in the preview including all adjustments such as Curves, Color Edits, ICC profiles etc. It shows the histogram based on ALL adjustments applied on top of the RAW data and shows all the changes you have made.



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Exposure Evaluation

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- [About the exposure meter](#)
- [Determining optimal exposure with RAW files](#)
- [Determining optimal exposure with RGB files](#)

Exposure Evaluation panel

Located in the Capture inspector, the histogram in the Exposure Evaluation panel displays individual Red, Blue, Green and Luminance channels for the captured image, which can be either RAW, TIFF or JPEG data depending on the image selected in the browser.

With RAW files, the histogram displays the data exactly as captured after the addition of a tone curve (that can be altered from the Base Characteristics tool), the importance of which can't be exaggerated when evaluating the optimal exposure. With the exception of white balance, no other settings applied or adjustments made in Capture One affect the histogram.

This is not the same as the histogram on the back of your typical camera that displays the values after the application of various image parameters and conversion to JPEG, using a smaller color space.



About the exposure meter

Beneath the histogram is a bar-type exposure meter that displays a safe working exposure range in green from -1.7 stops to +2 stops along with the selected image's deviation from the averaged exposure (0). The red area indicates overexposure and potential clipping of highlights, taking into account the extra data in tonal range available from RAW files, compared with JPEG or TIFF files. At the other end of the scale is a gray area that warns of underexposure and potential clipping of data in the shadows.

While under-exposing is a common method to preserve highlights, subsequent adjustment in Capture One using the Exposure slider, for example, to shift the histogram to the right, is likely to reveal "shot" noise in the shadow regions and deepest blacks. This can reveal itself as a regular pattern or banding in some cases, that can be difficult to remove entirely without adversely affecting detail.

The meter is meant as visual aid when working with a tethered camera, but it is also useful retrospectively, when determining the characteristics of your own camera's sensor.

Determining optimal exposure with RAW files

As there's less tonal information captured in the deepest shadows by a linear recording device such as a sensor, it is beneficial to overexpose at the time of capture ensuring as many pixels saturate as possible. Not only does this widen the range of tones captured but it also helps lessen noise and maximise color accuracy. Determining the optimal exposure for your camera, however, depends on the sensor's dynamic range.

As a guide, you should ensure the histogram is as close to the right hand side as possible without any of the channels touching or displaying a spike against the edge or wall of the panel. In addition, note the histogram's meter value located below. Sensors with the best dynamic range will tolerate the most overexposure, however, it is still expected that the optimal exposure for the majority of modern cameras will fall between ± 0 and $+0.5$ stops mark, depending on the sensor's capabilities.

Note that testing of the sensor to determine its characteristics should be performed prior to any critical work. You can

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confirm the exposure using the histogram in the Histogram panel in the Exposure inspector - it should similarly be as close to the right hand side as possible, without any of the channels displaying a spike against the edge or wall. If that's the case decrease the exposure by using a higher shutter speed, or by closing down the aperture.

Determining optimal exposure with RGB files

JPEG files are already processed to some degree, whether that's out of the camera or from Capture One (or another, third-party editor) and therefore the histogram in the Exposure Evaluation panel is likely be no different to that found in the Histogram panel. TIFF files may also be previously processed. This can be confirmed by assessing the two histograms.

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Exposure and Contrast

EXPOSURE / LOCAL ADJUSTMENT / BRIGHTNESS / CONTRAST / SATURATION

Use the Capture One Exposure Tool Tab to adjust exposure, contrast, brightness, saturation, levels and clarity.

Auto Adjustments

Capture One's Auto adjust option can correct several parameters including the Exposure, Contrast and Brightness, High Dynamic Range, Levels and Rotation all with just a click of an icon.

Basic Adjustments

Capture One has a number of intelligent, slider-based tools for correcting and adjusting the basics such as Exposure, Contrast, Brightness, and Saturation.

High Dynamic Range

Simulate high-dynamic range imagery from a single image, using Capture One's High Dynamic Range tool.

Levels Adjustment

Find out how to use the Levels tool to control the tonal distribution and alter the contrast. The Levels tool can also be used to correct color casts in the individual color channels.

Curves Adjustment

Discover how to use the Curve tool and accurately adjust the overall color and contrast in the shadow, mid-tones and highlights in the combined RGB mode, as well as control color in the individual color channels.

Adding and removing contrast with the Clarity tool

The Clarity tool can be used to add or remove contrast to both large- and small-scale areas to either make images 'pop', or used to smooth-out textures, such as unwanted wrinkles and large pores from expanses of skin.

Working with Vignettes

Add character to your images with a vignette using Capture One's purpose-designed, easy to use Vignetting tool.

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A Auto Adjustments

EXPOSURE / WHITE BALANCE / LEVELS / ROTATION

Capture One's Auto adjust option can correct several parameters including the Exposure, Contrast and Brightness, High Dynamic Range, Levels and Rotation all with just a click of an icon.

- Quick overview of Auto adjustment
- Select adjustments
- Apply Auto adjustment to images
- Apply Auto adjustment on import

Quick overview of Auto adjustment

Capture One has several individual tools that can apply automatic adjustments. By applying a single Auto adjust command, all of these tools can be made to apply the adjustments automatically, making it a good starting point for the various tools. In fact, the option to apply the Auto adjustments is included in the importer dialog, so you could let Capture One adjust the images while they're being imported. The Auto adjust feature can automatically adjust the following parameters:

- White Balance
- Exposure
- Contrast and Brightness
- High Dynamic Range
- Levels (combined RGB mode or individual Channel mode)
- Rotation
- Keystone

Not all of the parameters have to be applied, you can select those you want before applying them. Note auto Keystone adjustment is only applicable to images captured with a [Phase One IQ series digital back](#).

Select adjustments

As some of the parameters may not be relevant to certain images, you can select which of them you want enabled before applying the adjustments. Note the Auto Keystone adjustment is only applicable to images captured with a [Phase One IQ series digital back](#).

1. Choose between one of two options:
 - o From the main menu, choose Adjustments > Configure Auto Adjustments, or
 - o Long press on the A icon in the tool bar, then enable the following with a check-mark as appropriate;
 - White Balance
 - Exposure
 - Contrast and Brightness
 - High Dynamic Range
 - Levels (combined RGB mode or individual Channel mode)
 - Rotation
 - Keystone



Apply Auto adjustment to images

The Auto adjust feature can be used to apply several parameters. You don't have to apply all of them, you can select which of the parameters you want



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Basic Adjustments

Capture One has a number of intelligent, slider-based tools for correcting and adjusting the basics such as Exposure, Contrast, Brightness, and Saturation.

- Overview
- Apply Auto exposure
- Managing exposure
- Adjust exposure
- Adjust brightness
- Adjust Contrast
- Adjust saturation

Overview

Capture One's Exposure panel comprises of four separate tools controlled by sliders (or optional text boxes) to make tonal adjustments and correct common mistakes such as over- and under-exposure. Even if substantial or complex corrections aren't required, practically every image can benefit from a few minor adjustments using one or more of the sliders in this panel. In many cases the adjustments made here and together with the HDR panel can replace those made with the Levels and Curves tool.

Apply Auto exposure

The Exposure panel includes an Auto exposure icon (A) icon in the title bar. The exposure correction is based partly on the original meter reading in the Exposure Evaluation panel and an average exposure based on the 18% reflectance of a middle gray card or mid-tone surface. It also adopts smart-tech to prevent color casts or hue shifts. While it's useful as a starting point, exposure may be subject to creative intent and there are certain scenarios that it isn't suitable for, such as preserving high or low key scenes.

Managing exposure

The Exposure tool will change the appearance of colors. Tones will often appear over-saturated but this can be remedied by reducing the Saturation, edging the slider to the left.

1. Press the **Exposure Warning** icon (see circled, or View > Show Exposure Warnings) to highlight areas of an image that may be overexposed. A (default) red color mask will fill the areas that may be "burned out" and no longer display any detail. (Find out how to [change the Exposure warning settings](#)). Optional. Enable the Shadow Warning to display potentially underexposed areas, or shadow areas that may be "blocked" or "crushed", and similarly can no longer display tones or detail.
2. If you are new to Capture One, press the **A** icon in the Exposure tool's title bar to apply an Auto-Exposure adjustment.
3. Use the **High Dynamic Range** tool to help recover loss of detail in highlights and shadow areas. The **Highlight and Shadow** slider will also affect all colors and shades. Start by trying to carefully recover the information hidden in the highlights by adjusting the slider to the right while watching the Highlight Warning on-screen. Aim to leave specular highlights (light sources, including reflections). Then gently adjust the Shadow slider while observing the blue-colored Shadow Warning on-screen. Alternatively, adjust the **Exposure** slider, while watching the on-screen warnings.
4. Use Layer Adjustments such as the brush or gradient, to alter the exposure if there are specific areas of an image that are overexposed.



Adjust exposure

The Exposure slider works like the camera's exposure compensation dial, lightening or darkening the image and shifting the color and luminance values in the histogram to the left or right.

It is particularly efficient at recovering highlight or shadow detail from RAW files without introducing color casts or hue shifts over a range of -1.5 to +2 steps. However, adjustment can change the appearance of colors by altering the saturation.

The slider is continuously adjustable over a range of ± 4 steps however exposure can be adjusted in regular values of 0.1 steps using the up/down keys, or whole steps using the Shift modifier with the up/down keys.

A special algorithm is adopted to prevent clipping when making extreme adjustments to previously processed files such as JPEGs, providing new black and white points haven't already been set using the Levels tool.

1. Select the image or images to be adjusted.
2. Go to the Exposure Inspector.
3. From the Exposure panel, move the Exposure slider to left to decrease exposure and darken images, or to the right to increase exposure and lighten images.



Adjust brightness

1. Go to the Exposure Tool Tab.
2. In the Exposure tool, adjust the **Brightness** slider that will primarily affect the mid-tones of an image. Move the slider to the left to increase mid-tone contrast or to the right to lighten shadow areas and reduce contrast.



Adjust Contrast

1. Go to the Exposure Tool Tab.
2. In the Exposure tool, adjust the **Contrast** slider to the right to increase contrast throughout the image. Move it to the left to decrease contrast.

You can control the contrast of the image in much greater control with the [Curve](#) tool, but that doesn't mean there is no use for the Contrast slider. It is faster and easier to use than working with curves for most people, and it also affects the colors in a slightly different way than the Curve tool does.



Adjust saturation

This tool uses "intelligent saturation" so it does more than simply affect normal saturation values. The positive values (attained when the slider is moved to the right) are comparable to what third-party software often refers to as Vibrance. Vibrance is gentler to the skin tones and will be able to enhance, for instance, a blue sky without over-saturating the rest of the image. The negative values represent regular saturation settings. Decreasing the saturation will ultimately turn an image black and white. This in turn will change the histogram from RGB to monochrome, although the image will remain in a RGB color space as chosen by the output color space.





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High Dynamic Range

Simulate high-dynamic range imagery from a single image, using Capture One's High Dynamic Range tool.

- Overview
- Auto Adjust HDR
- Recover detail in the highlights and shadows

Overview

The High Dynamic Range tool is designed to simulate high dynamic range imagery from a single image, and is not, as the name might suggest, meant to merge an exposure bracketing sequence consisting of multiple images.

While it is good practice to adopt optimal exposure techniques, such as ETTR, to minimize noise and maximize the sensor's potential dynamic range to capture the widest range of tones without losing detail in the extremes, in reality the sensor's dynamic range cannot be extended in a single image beyond its specification.

Adopting separate Highlight and Shadow sliders, the High Dynamic Range tool therefore compresses the extreme tonal values in an image to simulate a wider dynamic range.

The Highlight slider lowers the brightness in the highlights and is used to recover detail from overexposed regions. If a channel is clipped accidentally, the tool can use the data in the other channels to reveal detail.

By analyzing the color data in the shadow regions, the HDR tool's Shadow slider adopts similar technology for determining and recovering detail that's no longer visible from underexposed images. As the brightness is increased in the shadows, excessive adjustment should be avoided where possible, otherwise noise is likely to become visible.



Auto Adjust HDR

The High Dynamic Range tool has an Auto option available from the tool's title bar. Like the other Auto Adjust options in Capture One, this is can be enabled from the main tool-bar and added alongside other adjustments and included as an option when importing.

It is also useful as an initial setting, as the tool's sliders are updated with the adjusted settings. Not only does this show the amount of adjustment for the image, giving you some indication of how to use it, but also allows you to fine tune the image afterwards.

The Auto option automatically analyzes the image and optimally adjusts the highlight and shadow regions. Providing the image isn't grossly over- or under-exposed it typically has little effect on mid-tones. This usually results in natural-looking images and provides a good starting point for images with clipped channels.



1. Go to the Exposure Inspector.
2. From the **High Dynamic Range** tool's title bar, press the **A** icon. Where necessary, the adjustments are automatically applied to the image, and the Highlight and Shadow sliders display the adjustment settings.
3. Fine tune adjustments using the two sliders. (Enable Show Exposure Warnings in the tool-bar, main menu or using the shortcut Cmd/Ctrl-E).

Recover detail in the highlights and shadows

The Highlight slider is used to restore detail from highlights by compressing the color and luminance values at the right hand side of the histogram.

The Shadow slider lightens the deepest shadows, compressing tonal values at the other end of the range, revealing any detail that was recorded at the time of capture.

The HDR tool produces natural looking images at low-to-medium values. Note that excessive adjustment can lower both contrast and saturation. It is recommended, therefore, that the Clarity tool is used to add mid-tone contrast.

The tool is placed before the Levels and Curve tools for a reason. At the risk of revealing noise, the HDR tool should not be used after adjustment of those tools in your workflow.

1. Select the image or images to be adjusted in the Browser.
2. Enable Show Exposure Warnings in the tool-bar, main menu or using the shortcut Cmd/Ctrl-E.
3. Go to the Exposure Inspector.
4. From the **High Dynamic Range** tool, adjust **Highlight** slider to darken and recover bright and over-exposed areas while observing the highlight warning mask. Specular highlights, reflections and direct light sources can be left to clip.
5. Adjust the **Shadow** slider to lighten dark areas to reveal detail as necessary. Keep to low values to maintain natural looking images.



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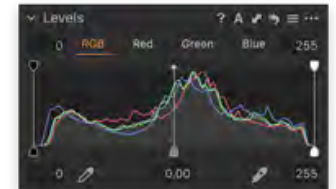
Levels Adjustment

Find out how to use the Levels tool to control the tonal distribution and alter the contrast. The Levels tool can also be used to correct color casts in the individual color channels.

- An overview of the Levels tool
- Setting Levels mode
- Auto adjust brightness and increase contrast
- Manual adjustment of brightness and contrast
- Adjust brightness and contrast using shadow and highlight pickers (optional)
- Auto correct color casts and contrast
- Adjust output levels
- Modify Auto Levels clipping thresholds
- Preview exposure warnings

An overview of the Levels tool

The Levels tool in Capture One, when in the combined RGB mode is used to adjust the contrast and brightness in an image. This is achieved by modifying the tonal values of your image, typically expanding the tonal range shown in the Levels' histogram. It is especially useful with low-contrast images such as those taken in flat lighting or heavily-diffused light, such as hazy or foggy daylight that contain compressed tonal values with few if any clipped areas. However it will depend on your creative intent.



Selecting an Auto Levels in the combined RGB Channel mode, Capture One will attempt to set the shadow and highlight sliders to either side of the histogram, thereby increasing contrast and altering the brightness. Some small number of pixels are allowed to go to pure black or white, such as specular highlights, without substantially affecting the overall contrast.

Adjusting the shadow and highlight sliders maps the pixel values at those points to the selected output values (shown above the histogram). If the output sliders or output values are left to the defaults, the points will be mapped to 0 and 255. For example, adjusting the input shadow slider to level 8 maps all pixels and below that value to 0 (pure black). If the highlight slider is moved to left at level 250 it will map all at those pixels at that level and above to level 255 (pure white).

These end-points represent the levels at which both shadow and highlight pixels start to clip and lose detail (known as the black and white 'clipping' points, respectively). A middle-slider is provided to adjust the adjusts brightness, or gamma, of the mid-tones. Moving it to the right compresses the shadows and lightens the highlights, while moving it to the left compresses the highlights and lightens the shadows. While the remaining RGB values are re-distributed to avoid color shifts, the combined RGB mode will not correct any inherent color in-balance.

The Levels tool can, however, also be used to adjust the color balance of the image. If a color shift is present you can adjust the Levels using the individual Red, Green and Blue Channel mode instead. Adjusting each histogram end-point manually is possible, however, it is quicker to switch channel mode and apply an Auto Levels on the individual channels. This often provides a very realistic-looking result. A shortcut to the application preferences is provided from the Levels tool's action menu.

Setting Levels mode

The Levels tool has two channel modes (combined RGB, and individual Red, Green and Blue) which you can switch between manually using the tabs. However, to apply auto levels correction, or use the shadow and highlight pickers for each, you must select the appropriate mode from the application preferences.

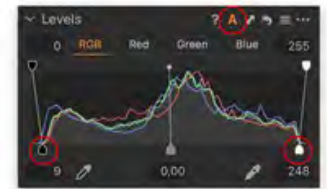
1. Select an image from the Browser.
2. Go to the **Exposure** Inspector and head to the **Levels** tool.
3. From the Level's tool bar, click on the Action button (... icon), and select Preferences...
4. Alternatively, from the main menu, select Capture One/Edit (macOS/Windows) > Preferences. The preferences dialog window opens.
5. From the Levels Tool area select the appropriate Channel Mode from the fly-out menu.



Auto adjust brightness and increase contrast ^{Pro}

When set to the default combined RGB Channel mode, the Auto option automatically sets black and white points that widens the tonal range thus increasing contrast and modifying the overall brightness.

The Auto option will provide an good initial result, but further fine-tuning of the input sliders is usually necessary, depending on your creative intent. Select the shadow point (left), mid-tone (middle), or highlight (right) point sliders underneath the histogram and drag to the left to lighten or to the right to darken the image.



When making adjustments, toggle on and off the highlight warning option in the tool-bar while assessing the image for clipping, as the red warning mask will inhibit adjustment.

In most cases, adjustment will be based on the final destination whether in print or the web. If the latter, then it is usually a case of adjusting brightness using the mid-tone slider.

With print, close attention is necessary when dealing with highlight detail, though be aware some print output profiles attempt to lighten the shadows. That is also the case when BPC is enabled when printing directly from Capture One. When assigning values, the shadow picker should be used. For more information, see below.

1. Select an image from the Browser.
2. Go to the Exposure Inspector and head to the **Levels** tool.
3. Select RGB and verify the tool is in the Auto RGB Channel mode by the inclusion of shadow and highlight pickers (eye-droppers) in that tab.
4. From the Level's tool title bar, click on the A icon. New black and white points are set under the histogram, and the histogram is adjusted (usually expanded). The image in the Viewer will display more even brightness and an increase contrast.
5. Optional. Adjust mid-tone (gamma) brightness slider to suit (left to lighten, right to darken), and fine-tune black and white point sliders to reduce clipping if present.

Manual adjustment of brightness and contrast

Manual adjustment of the Levels tool to improve contrast and brightness is possible instead of an Auto Levels correction. Alternatively, adjustment can be made afterwards as part of refining the settings based on the intended output or creative intent. Adjustment of the combined RGB Levels is not only confined to color but it is especially useful for improving the tonality of black and white images.



First set the black point slider to lessen clipping, or blocking, then the white-point slider while checking on-screen for clipping of highlights (see below for more details). Once selected, adjust the middle slider to the left to lighten or to the right to darken the image without clipping either end-point. In most cases this will be subjective, depending on the image content.

If the final destination is in print and the image contains nuanced detail in the highlights that you would like to retain, adjust the highlight clipping point slider to just less than pure white at 255 (e.g., 250), making the image slightly darker.

If the image contains specular highlights (highlights without any detail), it is common practice to leave these to clip and adopt the same hue of the paper.

1. Select an image and go to the **Levels** tool, and select **RGB** (combined channel mode).
2. Optional. Click on the tool's action menu and select Preferences... The application preferences opens. Add a check mark to Enable Shadow Warning.
3. Select Show Exposure Warnings from the main tool bar (cmd/ctrl-E).
4. Set the black point in the image by moving the left end-point slider beneath the histogram to the point where the histogram begins to rise on the left (i.e. to define the darkest shadow). Stop when the blue-colored shadow warning is displayed in areas of the image that are being clipped. Zoom into the shadow areas to confirm.
5. Adjust the white point slider to the point where the histogram rises on the right (i.e., the brightest highlight). Areas denoting the on-screen highlight warning should be minimal, with the exception of specular highlights (light sources or reflections) which can be left to clip.
6. Optional. Adjust High Dynamic Range tool's Highlight slider to the right to reduce clipping.
7. Modify brightness with the middle (gamma) slider, moving to the left to lighten or to the right to darken. Adjust to individual taste.

Adjust brightness and contrast using shadow and highlight pickers (optional) ^{Pro}

The shadow and highlight pickers can be used to select the black and white points in the Viewer. Although it can be difficult for inexperienced users to decide on the correct areas to select, you can use the Levels' orange histogram marker derived from the cursor tool's position to target the end points.



The pickers can also be used to select shadow or highlight points in the combined RGB channel mode and assign target values to specific parts of the image to new output values.

Although you can set the output values directly from the Levels panel, using the provided text boxes, the values can be set from the application preferences when they're required on a permanent basis.

To use the pickers to set shadow and highlight color, you must switch mode to the individual Red, Green and Blue channel mode from the application preferences. If you use the pickers be aware that they undo previous auto or manual adjustments.

The following description relates to setting shadow and highlight points using the combined RGB mode.

1. (Optional). Go the application preferences and select the Exposure tab. Enable Pick Target Levels and adjust the sliders to set the required values.
2. Go to the Exposure Inspector.

3. From the **Levels** tool, select combined RGB mode to set shadow and highlight points.
4. Select the **Shadow Picker** and click on an area of your image in the Viewer that's the darkest shadow with detail. You may need to zoom into the image.
5. Select the **Highlight Picker** and click on an area that is the brightest highlight with detail in your image.
6. (Optional, depending on intention.) Adjust the middle slider to the left to lighten or to the right to darken mid-tones, as desired.

Auto correct color casts and contrast

Before the Auto correction of color can take place, the Levels tool must be set to the individual Red, Green and Blue Channel mode.

In many cases, the Auto Levels correction of color yields a more pleasing result than the Auto levels in the combined RGB mode.

The channel mode is changed from the application preferences - a shortcut is provided from the tool's Action menu button (... icon).

The levels tool automatically corrects color casts, and sets histogram end points, however, manual adjustment of the color balance in each color channel is also possible.

Each slider modifies the shadows, mid-tones and highlights, respectively, by adding or removing color. For example, moving the shadow slider in the Blue channel to the left adds blue to the shadows. Moving it to the right removes blue, revealing a green tint.

While Levels is useful for basic corrections, for precise control consider using the more intuitive Color Balance tool or Curves, if familiar with it.

1. Select an image from the Browser.
2. Go to the Exposure Inspector and head to the **Levels** tool.
3. Confirm the Levels tool is set to the individual channel mode. (See above for details.)
4. From the Level's tool title bar, click on the **A** icon. The individual channels are re-mapped to new values and histograms are adjusted, if within the 0 to 255 levels. Color casts will be corrected and the image will display increased contrast.
5. Optional (advanced). Adjust color tone using mid-tone, shadow and highlight sliders. For example to add red, click on the Red channel tab and adjust individual sliders to suit.



Adjust output levels ^{Pro}

Output levels can be set manually by adjusting the sliders at the top of the histogram, or by entering values in the boxes directly above. Input levels are re-mapped to those new output values.

When used this way the Levels tool can be used to compress the tonal range and reduce the contrast in the combined RGB channel mode, giving the image an offset look in the shadows for example, or using the individual color channels to introduce color shifts in different tonal regions.

Output values can be set before adjusting input values or afterwards, depending on your intent. For example, when reducing contrast or adding a slight offset, it is usually performed after setting the input values.

1. Go to the Exposure Inspector.
2. From the **Levels** tool, select the RGB mode
3. Select **A** or adjust by pulling the shadow and highlight point sliders until they're just touching either ends of the histogram.
4. Check Highlight and Shadow warnings to identify any clipped pixels, and adjust as needed.
5. Adjust the middle slider to lighten or darken mid-tones as desired.
6. Adjust upper shadow and/or highlight sliders or add values in the text boxes to reduce output values, while observing the effect in the Viewer.
7. Optional. Select the individual Red, Green or Blue tabs to access and adjust separate color channels and modify the color balance using the



- output sliders.
- Levels settings may be saved as a preset and applied to multiple images.

Modify Auto Levels clipping thresholds

Capture One's default settings for Auto Levels' allow 0.1% of the pixels to clip at the black and white points. This prevents those few pixels from adversely affecting the rest of the image in terms of contrast and tone.

The range for each is adjustable between 0.00 to 10% but in most cases it is unlikely that a value as high as 1% would be adopted, even when taking a moderately large area of specular highlights into account.

Before deciding on the modified values, however, if the final destination is in print, it is recommended that test prints are made to determine the individual characteristics of your printer, including specific paper and inks.

- Select an image from the Browser.
- Go to the **Exposure** Inspector and head to the **Levels** tool.
- From the Level's tool title bar, click on the Action button (... icon), and select Preferences...
- Alternatively, from the main menu, select Capture One/Edit (macOS/Windows) > Preferences. The preferences dialog window opens.
- From the Levels Tool area go the Auto Levels Clipping Thresholds section and add values to the relevant Shadows and Highlights text boxes. (Note you can only type in values).
- Once the values are set, they're saved. As there's no need to close and re-open Capture One you can return to making adjustments after closing the preferences dialog.



Preview exposure warnings

You can preview clipping in the highlight and shadows while working on various tools in Capture One that alter the exposure. The warnings are an essential aid in determining when image detail is lost during adjustment.

The feature is not restricted to working with the Levels tool alone, but it is particularly useful when manually adjusting the shadow and highlight sliders to the clipping points. Clipped points are either pure black or pure white, and lack any image detail.

The Exposure Warning indicator is located in the right-hand group of the main tool bar. The preview displays a red colored mask in the highlight areas, warning that at least one color channel (red, green or blue) is clipping and image detail may be lost as result. Check the histogram in the Levels tool to see which channel is clipping; it will spike against the wall.

The default setting for the shadow warning is disabled. However, this can be enabled from the application preferences (Capture One/Edit (macOS/Windows) > Preferences... > Exposure tab > Exposure Warning > Enable Shadow Warning. When enabled, the clipped shadow areas are displayed in blue.

The clipping thresholds and the color for each of the masks can also be modified from the application preferences. Click on the color window and select from the swatch.

Note the default highlight clipping threshold is below 255 (pure white) at 250, to allow a small number of pixels to clip. In most cases, the sliders can be left to the defaults.



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Curves Adjustment

Discover how to use the Curve tool and accurately adjust the overall color and contrast in the shadow, mid-tones and highlights in the combined RGB mode, as well as control color in the individual color channels.

- [An overview of the Curve tool](#)
- [Improve contrast](#)
- [Improve contrast without altering saturation](#)
- [Set black and white points \(optional\)](#)
- [Correcting color casts](#)
- [Apply a preset](#)

An overview of the Curve tool

The Curve adjustment tool is one of the most versatile tools in Capture One. After adjustment in Levels the Curve tool is used to further adjust the contrast and color balance.

In the Capture One Curve tool there are five curves in total, and like the Levels tool, these are adjusted independently. The combined RGB curve and optional Luma curve are both used to adjust contrast and brightness, with the latter having the additional benefit of not increasing saturation.

The Luma curve also prevents banding and abnormal artifacts that are sometimes visible in transitions between colors, even when making more extreme adjustments. Images processed using earlier versions of Capture One Pro must be updated using at least the Capture One 9 engine, before being able to edit images using the Luma curve. Capture One's Curve tool may also be used to adjust color balance of the image, using the individual (Red, Green and Blue) color channels.

All five curves share similar characteristics. The lower left and upper right zones of the slope denote the shadow and highlight regions of the image respectively, while the area in the middle represents the mid-tones. By adding control points to the slope, you define the input values (represented by the horizontal axis) and, by adjusting it, the desired output values (represented by the vertical axis of the graph).

When modifying the slope to that of a curve, the tool applies the contrast and color adjustments by either stretching or compressing tones in the shadow, mid-tone and highlight areas.

Although the Curve tool can be used to set the black and white points, it is usually best to do so with the Levels tool. The Curve tool allows greater flexibility and control of shadows mid-tones and highlights, particularly when the panel is undocked from the Inspector and expanded.

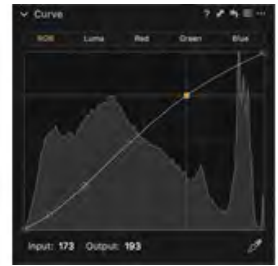
Curves adjustment can be applied to layers for selective adjustment, see the Layer Adjustment section for details.

Improve contrast^{Pro}

Curves enables users to further adjust the overall tonal distribution of an image within the shadow and highlight limits that are set by the Levels tool. Like Levels, the Curve tool has several channel modes to choose from depending on your intent. The combined RGB mode is used to adjust contrast and lighten or darken an image, collectively known as tonality.



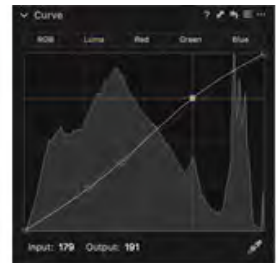
1. Go to the Exposure Inspector.
2. From the **Curve** dialog, select the **RGB** tab.
3. Click directly on the slope to add a control point in the tonal region that you want to adjust. (The upper-right of the slope adjusts highlights, and the center adjusts mid-tones. The bottom or lower-left adjusts the shadows.)
4. To **lighten** or **darken** the selected region, select and drag (or scroll) a control point **up** or **down** respectively, to form a curve.
5. To **decrease** or **increase** contrast in the chosen region, click and drag the control point to **left** or **right** respectively.
6. Add more points to the curve to adjust other areas. (To remove a control point, click and press delete/backspace or drag it off the curve.)
7. As an option, you can also add points by selecting the **Curve Point Picker** and clicking on the area of your image that you want to adjust in the Viewer.



Improve contrast without altering saturation ^{Pro}

The combined RGB mode is usually the first choice for fine-tuning contrast in most images, however, increasing contrast typically results in an increase in saturation. This can be confirmed by checking the color values, before and after adjustment.

It may be acceptable in landscapes but for certain images such as portraits, an increase in saturation may not be desirable. When that's the case the Luma mode should be adopted instead. In most respects the Luma curve can be adjusted in the same way that you would adjust an RGB curve. In fact, with more extreme adjustments, the Luma curve has a more realistic response.

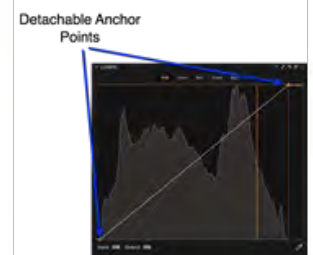


1. Go to the Exposure Inspector.
2. From the **Curve panel**, select the **Luma** tab.
3. Click directly on the slope to add a control point in the tonal region that you want to adjust. (The upper-right of the slope adjusts highlights, and the center adjusts mid-tones. The bottom or lower-left adjusts the shadows.)
4. To **decrease** or **increase** contrast in the chosen region, click and drag the control point to **left** or **right**.
5. To **lighten** or **darken** the selected region, drag a control point **up** or **down**.
6. Add more points to the curve to adjust other areas. (To remove a control point, click and press delete/backspace or drag it off the curve.)
7. As an option, you can also add points by selecting the **Curve Point Picker** and clicking on the area of your image that you want to adjust in the Viewer.

Set black and white points (optional) ^{Pro}

The tone curve has moveable anchor points located at either end, one in the shadows and another in the highlights. They enable you to set black and white points (remap the darkest and lightest values in the tonal range), like the Levels tool. Indeed, if the black and white points have been previously set using the Levels tool, it is not necessary to make adjustments to the anchor points.

1. Go to the Exposure Inspector.
2. In the **Curve Tool**, position the cursor on one of the anchor points – a guideline will be displayed to help with the positioning.
3. Click and hold the anchor point and then drag it to the desired position. For example, to remap the tonal range, move the anchor points inwards horizontally so that the guidelines just touch the edge of the histogram.
4. Repeat the procedure with the second anchor point.



Correcting color casts ^{Pro}

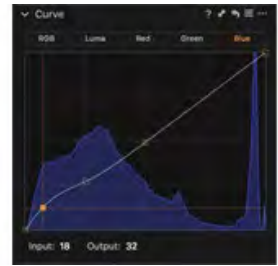
Like Levels, the Curve tool can be used to correct color casts. If they've been corrected already, using the individual Red, Green, Blue Channel mode of the Levels too, then there's likely no need to do so in the Curve tool.

If however only a combined RGB adjustment was made (i.e., setting the black and white clipping points), then the Curve tool is arguably the best tool. It can also be used to add color in the shadows, mid-tones or highlights.

Alternatively, consider using the Color Balance tool instead.

When adjusting individual color channels, the Curve tool may be duplicated in the Inspector for each tab. Left click on the tool and select Add Tool > Curve. Repeat for each channel.

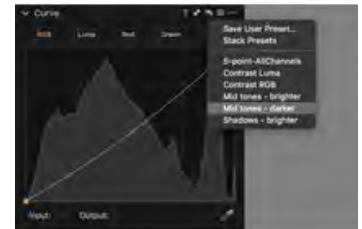
1. Go to the Exposure Inspector.
2. In the **Curve panel**, select individual Red, Green or Blue channels to adjust the color balance.
3. Click directly on the slope to add a control point in the tonal region that you want to adjust. (The upper-right of the slope adjusts highlights, and the center adjusts mid-tones. The bottom or lower-left adjusts the shadows.)
4. Click on a control point and either drag or scroll up to add the chosen color, moving it down removes it.
5. Click and drag the control point to left or right to lower or increase contrast in the chosen region.
6. Add more points to the curve to adjust other areas. (To remove a control point, click and press delete/backspace or drag it off the curve.)
7. As an option, you can also add points by selecting the **Curve Point Picker** and clicking on the area of your image that you want to adjust in the Viewer.



Apply a preset

The Curve tool has several built-in presets that are useful as a starting point.

1. Go to the Curve tool and select the **Manage Presets** (hamburger) icon. The Presets menu opens.
2. Select a preset from the list as a starting point.



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Adding and removing contrast with the Clarity tool

The Clarity tool can be used to add or remove contrast to both large- and small-scale areas to either make images 'pop', or used to smooth-out textures, such as unwanted wrinkles and large pores from expanses of skin.

- [An overview of the clarity tool](#)
- [Adjusting local contrast in images](#)
- [Removing haze from images](#)
- [Softening skin in portraits](#)
- [Improving loss of sharpness from diffraction](#)
- [Adding user presets](#)
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An overview of the clarity tool

The Clarity tool consists of four different methods and two adjustment sliders that can be used to add or remove what is termed collectively as local contrast in images. It is particularly useful for making contrast corrections after using the High Dynamic Range tool, and can also be used for more specialist applications such as diminishing the effect of lens diffraction and for softening skin.

The Clarity Tool has four styles or methods for applying local contrast: Natural, Punch, Neutral and Classic. The method selected affects both the Clarity and Structure sliders, however the difference on the latter can be particularly subtle depending on the image content.

The two sliders work similarly by altering the appearance of the transition between light and dark edges, however they differ by the scale of the transition they affect. The difference in contrast of larger-scale transitions or regions can be altered using the Clarity slider. Positive values increase contrast and can be used to reduce the softening effect of haze in images, for example. Negative values can be selected to lower contrast and smooth out or soften unwanted detail that can be useful in portrait images.

The Structure slider is used to alter the contrast between increasingly smaller-scale areas, where transitions have only slightly different tonal values. Therefore, it has a particularly noticeable effect on images that feature very fine detail, such as fine branches, foliage, grass, fabric and textiles. This adjustment slider can also be used to mitigate the image softening effects from lens diffraction.

Although it is intended that you select the method first, and then adjust one or both of the sliders depending on the effect you want to achieve, there's no reason why you can't switch between methods after adjusting a slider to see the effect on the image. Care should be taken to avoid excessive adjustment, which can lead to clipping and to harsh and artificial-looking images. Fine-tuning with small adjustments and keeping to low values can greatly improve the look and perceived sharpness of the image.

Adjusting local contrast in images

1. Go to the Exposure inspector.
2. From the **Clarity** tool, go to Method and choose from one of the following:
 - o **Natural**: This method applies milder local contrast than either the Punch or Neutral options and avoids false colors and clipped



highlights. Low negative values may be used for softening portraits.

- o **Punch:** Adds higher values of local contrast than Natural or Classic methods and increases saturation slightly, however if applied heavily some highlight clipping may occur. Positive values using this method work well with landscapes.
 - o **Neutral:** This method adds the same level of local contrast as Punch, however saturation remains unaltered. When applying heavy contrast corrections the Neutral method usually works best, resulting in a more realistic and pleasing effect.
 - o **Classic:** The Classic option introduced in Capture One Pro 6 applies the mildest local contrast without increasing saturation. This method preserves highlight detail better than the Punch and Neutral options. Positive values using the Classic setting work well with architecture and on images with a degree of haze. Low negative values of Clarity may be used for softening portraits.
3. Adjust the **Clarity** amount slider as necessary. Positive values increase mid-tone contrast whereas negative values lower it, producing a progressively softer look.
 4. Zoom the image to 100% in the Viewer or the Focus window to help in choosing the preferred Clarity method type and whether the Structure adjustment is required.
 5. The **Structure** slider enhances texture when positive values are applied. Edging the slider to the left into negative values has a more moderate softening effect than the Clarity amount slider.



Removing haze from images

You can reduce the effects of atmospheric haze to significantly improve an image using the Clarity tool. When you want to preserve highlight detail select either the Natural or Classic modes initially, as these are the most effective. In addition, the Classic mode doesn't increase saturation like the others.

Before using the Clarity tool, it is a good idea to make a white-balance correction or go to the Levels tool and perform an Auto Levels adjustment, preferably using the individual Red, Green and Blue Channel mode to set black and white points and perform a color correction.

The Structure slider is unlikely to make any enhancements, however it does depend on the severity of the haze. Enhancements may be visible in more detailed images with low levels of haze.

If you want to creatively add haze, move the Clarity slider (and Structure slider, as an option) to the left using small increments and keep to low values.

1. Select the image in the browser.
2. Go to the Clarity tool.
3. From the Method drop-down menu select either Natural or Classic.
4. Drag the Clarity slider to the right, while observing the effect in the viewer.
With more extreme adjustments zoom to 100% to check for haloing and other unwelcome artifacts in backgrounds, and enable the Exposure Warning and check highlights.
5. Optional. Move the Structure slider to the right, while observing the effect in the viewer. With extreme adjustments, zoom to 100% and check both highlights and shadows for clipping.



Softening skin in portraits

The Clarity tool can be used to good effect when softening the texture of skin in portraits is required. To prevent the effect elsewhere in the image, particularly with backgrounds and highly textured clothing, brush the effect in using a layers adjustment. Some trial and error is required with the settings, depending on the desired effect. Natural or Classic method options are a good

place to start, and although there may be some fine tuning to make using the Structure slider, it is the Clarity slider that has the most significant effect. Avoid excessive slider adjustment, otherwise the Clarity tool may produce skin texture with an unnaturally smooth and plasticky appearance.

When the desired balance has been achieved you can save the settings as a single User Preset. Note that, when using the Clarity tool it makes sense to create a small library of User Presets, as the fast rendering between them on-screen is well-suited to displaying the subtle differences between the different settings.

If a layer mask has been made on an image, set the sliders to desired values and then switch between the method options to gauge the effect of each. Use the clone variant option to make a variant group, then use the compare variant option as the favorite to compare each one before saving the tool's settings as a user preset.

1. Select the image in the browser.
2. Go the **Layers** tool.
3. Select the **Draw Mask** from the foot bar menu, or select the brush (B) and draw over the skin areas. Consider avoiding or removing the mask around eyes and lips.
4. Go to the **Clarity** tool.
5. From the **Method** drop-down menu select either Natural or Classic.
6. Drag the **Clarity** slider to the left keeping to low values while observing the effect on skin texture in the viewer. Avoid extreme adjustments. Zoom to 100% to check for unwelcome artifacts in backgrounds and enable the Exposure Warning and check highlights.
7. Optional. Drag the **Structure** slider to the left in small increments, keeping to low values, while observing the effect on detailed areas particularly eyelashes, eyebrows and the iris, if included in the layer mask. Avoid extreme adjustments and check both highlights and shadows for potential clipping.

Improving loss of sharpness from diffraction

Diffraction is a lens aberration that increases upon stopping down leading to a loss of definition, with at first a loss of contrast and then a loss of resolution. The Clarity tool can be used to reduce these effects by increasing contrast and the perceived sharpness.

The selection of the Method and Slider choice is determined by the image content and creative intent, however, in general terms, you can adopt the Natural method and Clarity slider combination for a low amount of large-scale contrast where diffraction is just visible at mid apertures, for example. With small apertures where the blurring effects of diffraction are more visible, use the Natural or Neutral and Structure slider combination to apply a higher amount of small-scale contrast.

1. Select the image in the browser.
2. Go to the **Clarity** tool.
3. Select **Natural** method and **Clarity** slider combination when a slight loss of contrast is noticed (mild diffraction), or adopt **Natural** or **Neutral** and **Structure** combination when a more noticeable loss of sharpness is detected.
4. Depending on the choice above, drag the Clarity/Structure slider to the right, keeping to low values initially, while observing the effect in the viewer. With more extreme adjustments zoom to 100% to check for haloining and other unwelcome artifacts in backgrounds, and enable the Exposure Warning and check highlight areas.



Adding user presets

When using the Clarity tool it makes sense to create a small library of User Presets, as the fast rendering between them on-screen is well-suited to displaying the subtle differences between the different settings. If a large library is required, create a folder for each of the four methods, and save the presets with incremental slider adjustments (and then, as they're in a flat-list, you can apply and see the effects quickly by scrolling over them).

1. Select an image from the Browser.
2. Go to the Clarity tool and make the desired adjustments using the Method, and Clarity and Structure sliders.
3. From the Clarity tool's Manage menu (hamburger icon) select **Save User Preset...** from the menu. The Save Preset dialog window opens.
4. Add checkmarks next to Clarity and Structure, as desired, and select Save, or Cancel to dismiss.
5. If you selected Save, a system dialog opens.
6. Give the preset a relevant Name, such as Neutral_Clarify_30_Structure_30 and select Save.
7. Optional. If preparing a library, select New Folder and name it using the selected Method, such as Neutral, and then name the preset Clarity_30_Structure_30 and select Save.



Selecting user presets

Like all User Presets in Capture One, they're accessed via the individual tools' Manage Presets menu (hamburger icon) in the title bar, or from the Styles and Presets tool. User Presets made by the Clarity tool can also be applied from the Layers tool when localized application is required.



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Working with Vignettes

Add character to your images with a vignette using Capture One's purpose-designed, easy to use Vignetting tool.

- [Applying a vignette](#)

Applying a vignette

Vignetting is a controlled exposure adjustment that will either darken or brighten the edges and corners of an image. The edges and corners will appear brighter when the EV value is added and darker when it is reduced. Vignetting will be affected by any color tone that is applied to an image, including the Sepia and Blue tone styles. Note this tool is not meant to correct the shortcomings of an optical system. The Light Falloff tool should be adopted for that purpose, in conjunction with either a Generic or Specific Lens Profile.

1. From the [Exposure Tool Tab](#), select the **Vignetting** tool.
2. Select an image from the browser and choose the desired option from the **Method** drop-down menu. The two crop options, circular and elliptic, resize the vignette when cropping an image.
3. Adjust the **Amount** slider to the right to lighten or the left to darken the edges and corners of an image. The amount of exposure can be adjusted over a range of $\pm 4EV$.



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Details

The Details Tool Tab includes tools for sharpening, noise reduction, adding film grain, and both moiré and spot removal.

Sharpening

Check focus and apply sharpening to enhance the image.

Noise Reduction

Reducing Moiré

Suppress Moiré patterns in digital images

Simulating Film Grain

Use Capture One's Film Grain tool to simulate the look of film by adding grain to your images.

Sensor Dust and Spot Removal^{Pro}

Remove unwanted sensor dust, spots or blemishes from images using the Spot Removal tool.

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PHASEONE

what the world's best photography is made of

[Capture One](#) > [Editing Images](#) > [Details](#) > [Sharpening](#)

Sharpening

SHARPENING / NOISE REDUCTION / GRAIN / HIGH ISO

Check focus and apply sharpening to enhance the image.

- [Overview of sharpening workflow](#)
- [Check focus in the viewer \(without using zoom\)](#)
- [Check focus and sharpness \(without zooming into the viewer\)](#)
- [Adjust sharpening](#)
- [Save settings as new defaults](#)
- [Save settings as user presets](#)
- [Sharpen an image using presets](#)
- [Switch between global and selective sharpening](#)

Overview of sharpening workflow

To accommodate various workflows, Capture One's Sharpening tool in the Details Tool Tab is very flexible and can be used for a wide range of capture-sharpening or creative sharpening techniques prior to additional localized creative sharpening and output sharpening. As a part of the default settings applied to image variants, Capture One adds sharpening according to the camera model used. This step is intended to counteract the inherent softness of digital capture, including anti-aliasing, diffraction, and the subsequent interpolation or demosaicing process in Capture One.

Like the optional Diffraction Correction (deconvolution sharpening) and Sharpness Falloff available in the Lens Correction tool, the default sharpening settings can be considered an optional component within the first of a typical three-stage sharpening workflow. Capture sharpening of some form is required for virtually every image, so if you don't use deconvolution sharpening or the sharpness falloff tool, Capture One's Sharpening tool should be used instead. It can be left to the defaults, of course, or fine-tuned manually using the sliders (and saved as a preset or as new default setting), prior to further sharpening later.

The second stage of the sharpening workflow, known as creative sharpening, depends on the image content, and intended use. When you want to apply global sharpening, for example to rescue a soft or slightly mis-focused image, use the Sharpening tool in the Details Tool Tab (this effectively overrides the default capture sharpening settings). Applying sharpening usually increases the visibility of noise, so you will likely have to adjust the noise reduction settings while sharpening the image. Fortunately, it doesn't matter in which order you make the adjustments as, when processing the images for export, Capture One will apply all the settings in the optimal order. When you want to apply sharpening selectively to areas in an image, for example the eyes in a portrait, use the Sharpening tool in the Local Adjustments Tool Tab.

This multi-stage sharpening workflow allows image variants to exist close to an output-ready state, with the third and final stage, Output Sharpening, only being required when printing or sharing images. The settings for output sharpening can be customized (and saved as part of a recipe or preset), taking into account any influence on the final image by the intended output device. Consider the implications to your workflow if just one stage of sharpening is used - you will have to adjust the image variant each time you want to change the output device. For more information on Output Sharpening, please see the section on [Export and Processing](#).

Check focus in the viewer (without using zoom) ^{Pro}

The Focus Mask tool is intended as a means of evaluating the sharpness of an image at the time of capture, particularly when working tethered. However, it is also useful when identifying and selecting properly focused images and attendant depth of field, prior to adding sharpening.

1. Press the **Focus Mask** icon (circled). Sharp areas will be highlighted in a (default) green marking.
2. Go to Capture One>Preferences to adjust the Focus Mask settings. For more information on the settings, please see the [Preferences](#) section.



Check focus and sharpness (without zooming into the viewer)

Capture One's Focus tool has a preview window that can be used to examine a part of an image in detail at up to 400% magnification, without zooming into the Viewer. The Focus tool can also be undocked from the toolbar and placed to float anywhere in the Viewer. For added convenience when sharpening, you can also undock the Sharpening tool from the toolbar and dock-it beneath the floating Focus window.

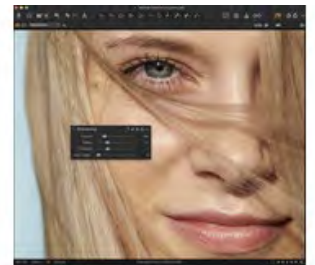
1. Go to the [Details Tool Tab](#).
2. The **Focus** tool shows a section of the image that can be magnified up to 400%.
3. Use the **Pick Focus Point** icon to select a desired area (in the Viewer) to inspect in detail.
4. Adjust the magnification on the slider below the window, or click on the icons either side to alter the magnification in steps. Sharpness should be assessed at 50% and at 100%.
5. To resize the preview window, click on an edge or corner and drag. Alternatively, click on the Action menu icon (...) and select a sizing option (Medium or Auto Size) from the list.



Adjust sharpening

As a part of the capture sharpening stage, Capture One applies pre-sharpening to images based on the camera model. The default settings are a good place to start when enhancing an image. Note, of course, that adjustments are global and override the default settings. To alter the sharpening parameters using the keyboard as a shortcut, click on the values to highlight the box, then use the up/down arrows to increase/decrease the values by a set amount. To increase by a larger amount, select the shift key first.

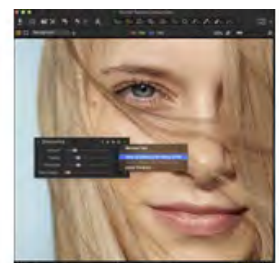
1. Go to the [Details Tool Tab](#).
2. Either set the Viewer to 100% and use the Pan cursor tool (H) to navigate to an area in the image, or select an area with the picker in the **Focus** tool.
3. From the **Sharpening** tool, first set the **Amount**. This slider lets you specify how much brightening and darkening you want to apply to the edges. Higher settings apply more contrast. The majority of the sharpening adjustment is performed using this and the radius slider.
4. The **Radius** slider adjusts the width of the brightened and darkened areas at the edges. Typically the radius can be set low at first and increased in combination with the amount, while observing the effect on the edges.
5. The **Threshold** slider controls the difference in brightness between adjacent edge pixels, in effect where the sharpening effect will take place. When set to zero (0), sharpening will be applied to all the edge pixels in an image. High values affect high tonal differences between edge pixels. Typically the threshold is set low, between 0-1.0 is common. However, the threshold can be increased to mitigate sharpened noise (i.e., after adjusting the amount and radius).
6. Adjust the **Halo Suppression** slider when halo artifacts are noticeable, particularly after aggressive sharpening has been applied (i.e., after high values of amount and radius have been applied). Check images on high contrast edges for halos (dark and bright-lines) in the Focus window or Viewer at 100% or more, and drag the slider to the right to reduce or eliminate them.
7. Use the Pan cursor tool to check other areas of the image at both 50% and 100%.



Save settings as new defaults

After adjusting the sharpening sliders, you can save the adjustments as a new default setting for you particular camera. Existing image variants in Capture One will not be affected, however every time you import new images from that camera the new settings will be applied. In addition, you can manually apply the adjustments to existing variants if you want to update them. Note the sharpening settings are global.

1. Select a variant and fine tune the default sharpening settings as desired (as



- described above).
- From the **Sharpening** tool's Action menu (...), select **Save as Defaults for [camera model]**. A dialog will open reminding you that the default adjustments for all new variants will be changed, and existing variants will not.
 - Click **Apply** to save the adjustments to the selected variant (and any new image variants from that camera in the future).
 - To apply the new default adjustments to existing variants, select them in the browser and choose **Apply Defaults** from the Action menu (...).

Save settings as user presets

In addition to saving the sharpening adjustments as new defaults, Capture One allows you to save the adjustments as a user preset. The distinction between the two being that user presets are not automatically applied when importing, and are more likely to be used to apply different sharpening adjustments depending on content and intent.

- Select a variant and fine tune the default sharpening settings as desired (as described above).
- From the **Sharpening** tool's **Manage** menu (three bar icon), select **Save User Preset...** A **Save Preset** dialog opens.
- Verify that the parameters you would like saved are check-marked and click **Save**.
- You will now be prompted to name the preset. Choose a meaningful name and click **Save**.
- If you create a lot of sharpening presets, you can create a dedicated folder for them. First, select **New Folder**, choose a meaningful name and click **Save**, then name the preset and save it to that folder.



Sharpen an image using presets

Capture One has a number of built-in sharpening presets that can be applied to images. Alternatively, if you've previously saved a sharpening user preset, you can select that and apply the settings instead.

- Go to the **Details Tool Tab**.
- Either set Viewer to 100% and use the Pan tool (H) to navigate to an area of interest, or select an area with the picker in the Focus tool.
- Press the **Manage Presets** icon to access a variety of sharpening settings. Select a setting from the list.
- Fine-tune the desired setting using the sliders.
- Use the **Pan** tool (hand icon) to check other areas of the image at both 50% and 100%.
- To remove a built-in preset, return to the manage presets menu and re-select the active preset from the list (indicated by a checkmark). Reselecting will disable the preset (and remove the checkmark).
- When removing a user-preset, select the preset from the list under **Applied Preset**, and click on **Remove** from the menu.



Switch between global and selective sharpening

If you've created a layer for selective sharpening in the Layers tool, you can quickly switch between that and global sharpening. Simply select the background layer for global sharpening, or create a new filled layer and apply the sharpening to that instead. For extra flexibility when using adjustment layers, you can slightly over-sharpen as an option, then adjust the opacity of the layer afterwards if necessary.

- Go the **Layers** tool and select the layer used to apply localized sharpening. A small brush icon next the Sharpening tool's name is displayed in the title bar.
- Select **Background**, or click-on the **Create New Layer** button (+ icon) in the foot-bar, select **New Filled Layer**, and apply or adjust sharpening as desired.
- If either adjustment layer was over-sharpened as an option, adjust the **Opacity** slider to fade the effect.





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Noise Reduction

NOISE REDUCTION / HIGH ISO / GRAIN

Capture One allows the removal of luminance and color noise from images using the Color and Luminance noise reduction sliders. Luminance noise exists in every digital image. Noise is caused by the light sensitive chip, regardless of ISO. Normally this noise is more visible at high ISO values. Higher Noise levels at high ISO values are caused because the signal has been amplified.

Please note that Capture One automatically adds an amount of noise reduction based on individual image evaluation.

- Remove noise from image files
- Luminance
- Color
- Details
- Single pixel slider
- Remove long exposure artifacts and high ISO noise

Remove noise from image files

1. Go to the [Details Tool Tab](#).
2. The **Noise Reduction** tool will display the auto adjustment settings.
3. Use the Luminance slider to adjust the level of luminance noise.
4. Use the Color slider to adjust the level of chromatic noise.
5. Adjust the Details slider to smooth the surface of an image.

Learn more about the [Luminance](#), [Color](#), and [Details](#) sliders.

Luminance

This slider removes the pattern-like noise that is often present in shadow areas. The default setting for Luminance is 50. Increase the setting value for images that display displeasing noise levels and check the effect in the Viewer at 100% magnification.



Color

This slider removes color noise from images that are typically noticeable as subtle green/magenta patterns. It is very difficult to recommend specific settings as noise varies from camera to camera, but the program defaults provide a good starting point. The Viewer provides a clear view of the effect of filters on image noise.



Details

Applying heavy chromatic or luminance noise reduction may give an image a soft appearance. If that's the case, adjust the Details slider to smooth the surface of an image. The default setting of 50 produces an even balance between image detail and noise. Adjust the Details slider to a smaller value to

achieve a smoother surface. A large value produces more fine detail with improved edge definition. However, a higher setting can also produce more grain, especially with images captured at a high ISO.

Single pixel slider

Images that are exposed using a long shutter speed may be susceptible to the occasional 'hot-pixel', which is a single white pixel that should appear dark. The Single Pixel slider can be used (in the Noise Reduction tool) to eliminate hot-pixels although it can also affect the rest of the image. The filter will analyze single pixels compared to the surrounding area and correct the errors. But apply adjustments appropriately as the Single Pixel effect is very powerful especially at its maximum 100 setting.

The Single Pixel slider, like many other adjustments tools should always be used with caution and in moderation. Remember to try and check the final result before processing.

Remove long exposure artifacts and high ISO noise ^{Pro}

1. Go to the [Details Tool Tab](#).
2. Go to the **Noise Reduction** tool.
3. Use the **Single Pixel** slider to reduce the artifacts of a long exposure.
4. The higher the number, the harder the tool works.



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Capture One > Editing Images > Details > Reducing Moiré



Reducing Moiré

Suppress Moiré patterns in digital images

- What is Moiré?
- Suppress Moiré

What is Moiré?

In simple terms Moiré can occur when capturing a subject with fine pattern details. An image sensor may reproduce this pattern with a Moiré effect because it lacks resolution. Moiré can be an issue when photographing clothes and can occur in architecture photography.

The simplest way to avoid Moiré is by adjusting the position of a camera by moving it back/forward while photographing and/or changing your aperture setting.

When working with the Moiré tool, check areas that naturally have narrow stripes or a stripe-like pattern; if these have disappeared gradually turn down the Amount and Pattern and re-check the original Moiré issue.

Suppress Moiré Pro

1. Go to the [Details Tool Tab](#).
2. Go to the **Moiré** tool.
3. Zoom to 100% in the [Viewer](#) and keep the Moiré area visible.
4. Adjust the **Amount** value first, followed by the **Pattern** value, bit-by-bit in small increments.
5. When the Moiré has disappeared do not increase the **Amount** or **Pattern** values.



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Simulating Film Grain

Use Capture One's Film Grain tool to simulate the look of film by adding grain to your images.

- An overview of the Film Grain tool
- Adding film-like grain to images

An overview of the Film Grain tool

The Film Grain tool can be used to alter the image aesthetic by adding a realistic interpretation of film grain to digital images. Alternatively, the Grain tool may be used to add texture to digital images that have an excessively smooth or "polished" appearance, possibly after adding too much noise reduction or after adjusting the negative [Clarity settings](#). If this is the case, the Film Grain tool may be used to create a more natural-looking image. Increase Impact (contrast) and Granularity (grain size) with caution. A number of built-in presets for different grain-effects are available from the tool's action menu (...).



Adding film-like grain to images

1. Go to the [Details Tool Tab](#).
2. From the **Film Grain** tool, select the grain type from the **Type** drop-down menu.
3. Select an area of uniform color or an area without texture if possible, in the Viewer or the [Focus](#) window.
4. Adjust the contrast to the desired amount using the **Impact** slider.
5. The granularity or size of the grain is adjustable. Alter from fine to coarse by dragging the **Granularity** slider to the right. Note, when Fine Grain is selected the Granularity slider is disabled.
6. Settings may be saved as User Preset. A number of built-in Presets are also available.



Note: The Film Grain tool is not available as a Layer.

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PHASEONE

what the world's best photography is made of

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Sensor Dust and Spot Removal^{Pro}

DUST AND SPOTS / SPOT REMOVAL / MOIRÉ

Remove unwanted sensor dust, spots or blemishes from images using the Spot Removal tool.

- [Overview of the spot removal tool](#)
- [Removing spots and sensor dust](#)
- [Removing sensor dust from multiple images](#)
- [Switching between spot and dust removal in the viewer](#)
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Overview of the spot removal tool^{Pro}

The Spot Removal tool can be used to quickly remove spots or small blemishes from images. In addition to spot removal it also has an option to remove sensor dust. Although the operation using a circular cursor to retouch each imperfection is the same between the Spot and Dust modes, the two adopt different algorithms so the results will vary between them. Whereas the Spot option analyzes texture, color and brightness from the sampled area, in this case within the circular cursor, and merges that with its immediate surroundings, the Dust mode estimates the light lost and compensates with a localized exposure adjustment. It is recommended, therefore, to limit each to their intended use.

Sensor dust can be commonly seen in similar or identical locations on images from one session. Dust can settle on the front of the so-called "filter-stack" of an image sensor and may appear in varying degrees of sharpness from image-to-image, depending on the aperture selected during capture. To save time when retouching dust spots from multiple images, use the Global Copy and Apply buttons to apply the corrections. Alternatively, make a local copy of the dust spots using the Adjustments Clipboard and apply the Dust setting to the rest of the images. Always check image files when automatically removing dust spots. The Spot Removal tool works with offline images so you can continue working on a Catalog without the source files available, for example, when you're away from the office and don't have access to an external drive or NAS. You can use multiple overlapping selections (up to 100 selections can be made per image), however, the brush-based Heal tool is recommended when more advanced retouching is required. For more information, see the section on the [Heal tool](#).

Removing spots and sensor dust^{Pro}

The operation is the same for removing spots and small blemishes as it is for removing sensor dust. However, for the best results it is recommended to use the appropriate mode, depending on the issue encountered. Both types of spot removal can be employed on the same image. When checking images for sensor dust, it may help to darken the image first using a negative exposure adjustment.

1. From the **Details** inspector, go to the Spot Removal tool.
2. From **Type** drop-down menu, select from **Dust** or **Spot** as appropriate, and click-on the ring-shaped orange cursor adjacent to the **Type** field.



- Alternatively select the circular orange-colored cursor from the Cursor tool bar or use the shortcut (O). When the Dust option is selected, the current cursor changes to a four piece ring-shaped cursor with a crosshair. When Spot is selected, the cursor can be identified by its unbroken circular cursor with a crosshair.
- Magnify the image in the Viewer to 100%.
 - Before applying, adjust the size of the circular-cursor to match the spot or dust-particle; ctrl/right-click (macOS/Windows) in the Viewer. The tool opens beneath the cursor.
 - Adjust the **Radius** slider to fully cover the spot or dust-particle and click-on it to remove it. Alternatively click on the spot or dust-particle, then click-and-drag the edge of the selection ring to cover it. When active, the circular-cursor changes from silver-gray to orange-colored and the spot or dust-particle is removed.
 - To re-position a selection, place the circular-cursor in the center of the selection-ring and drag and drop to change its position.
 - Repeat steps 2 to 6 to remove more individual spots or dust-particles.

Removing sensor dust from multiple images ^{Pro}

Sensor dust, when it occurs, is typically seen in the same location on all images from the same camera, and particularly during the same session. Once all of the selections have been made and the dust removed from one image, you can apply the adjustments to all the images in the session. The same procedure can be used for spot-removal, with some caution, as the spots must be located in the same position in each image.

In Capture One, there is more than one method you can use. The quickest when applying to multiple images (and the Edit Selected Variants option is already enabled) is to use the local Copy and Apply command. If you haven't decided on the image or images to apply the adjustments to (i.e., they're not already selected or they are but the Edit Selected Variants option isn't yet enabled) then a combination of local and global copy and apply commands must be used.

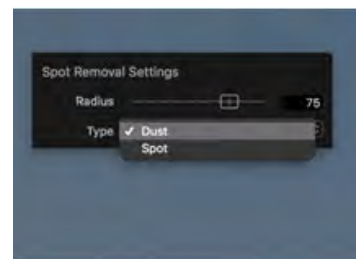
- Select one image from the Browser and make the selections using the Dust removal option, as previously described.
- Click-on the Copy and Apply button (double-headed arrow icon) in the title bar. The tool's Adjustments Clipboard dialog window opens.
- Add a check-mark to the Dust option, and choose from the following:
 - Copy** - choose this to copy to the clipboard when you haven't yet selected the image or images you want to apply the adjustments to (i.e., if the Edit Selected Variants option is not already enabled). The adjustments are copied to the clipboard (this includes both the local clipboard and global adjustments clipboard).
 - Apply** - to copy and apply to one or more images if the Edit Selected Variants option is already enabled. The adjustments are copied to the selected images.
- If you selected Copy in step 3, select the image or images (when applying to multiple images, enable the Edit Selected Variants option) and press the Apply button in the main toolbar (downward slanting arrow icon), or the Apply button in the Adjustments Clipboard.
- The adjustments are applied to the selected image or images.
- Always check images afterwards when automatically removing sensor dust, and particularly so if removing spots.



Switching between spot and dust removal in the viewer ^{Pro}

You can switch between the Dust and Spot options quickly from image-to-image, or even on the same image directly from the Viewer.

- With the Spot Removal cursor selected, ctrl/right-click (macOS/Windows) in the Viewer. The Spot removal Settings dialog window opens beneath the cursor in the Viewer.
- Click on the field adjacent to **Type** and select the appropriate option from the menu.



Clearing selections from the viewer ^{Pro}

1. When you've finished working with the Spot Removal tool, switch to another cursor such as the Pan (H) or Select (V) cursor. This will clear all of the ring-shaped, dust/spot removal cursors from the Viewer. Any sensor dust or spots that have been removed will stay hidden.
2. To continue using the Spot Removal tool on the same image, re-select the circular cursor from the Spot Removal tool or Cursor group. Any previous selections made will be recalled and displayed for further editing.



Deleting specific selections ^{Pro}

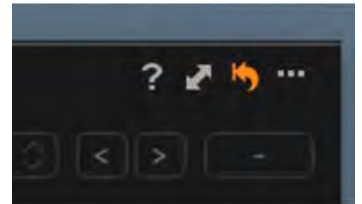
Each time a selection is made a selection-ring indicates the position in the image and it is recorded and numbered in the Spot Removal tool. To highlight the individual selection, you can either select it directly from the Spot drop-down menu if you know the position, or navigate through each selection using the forward / backward > / < buttons in the tool. The selection is highlighted in the Viewer. If you have made multiple selections, however, it's unlikely you'll know what number it is. If you select the circular cursor in the Viewer, the numbered position will be displayed in the Spot field of the tool.



1. To delete a selection, either select it from the list in the **Spot** drop-down menu in **Spot Removal** tool, or in the Viewer so that it changes from silver-gray to orange and choose from one of the following:
 - o Press the backspace/delete key
 - o Press the delete button (-) icon in the Spot removal tool.
2. The selection is deleted. If there was a spot or dust particle beneath that selection it will re-appear.

Deleting all selections simultaneously ^{Pro}

1. To delete (reset) all the spot/dust adjustments in an image without affecting any other adjustments made, click on the local reset button (curved arrow icon) in the Spot Removal's title bar.
2. To delete spot/dust adjustments on all selected variants, shift-click on the local reset button.
3. To temporarily delete all the spot/dust adjustments, option/alt-click (macOS/Windows) on the local reset button.



Save selections as a style ^{Pro}

You can save the dust-removal adjustments, as a kind of "dust map" for that specific camera, for the following sessions.

1. Go to the **Adjustments** inspector and from the **Adjustments Clipboard** panel, verify the Dust option is enabled and all others are disabled.
2. Click-on the Action button (... icon). The Action menu opens.
3. Select **Save as Style...** from the menu. A system dialog window opens.
4. Give the style a meaningful name, such as [Camera Model]_Dust_Map_[Date] and press **Save**, or **Cancel** to reject and return to the app.
5. When automatically removing sensor dust, always check images afterwards.



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what the world's best photography is made of

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Styles and Presets

[STYLES / PRESETS / METADATA / VIEWING IMAGES](#)

Capture One has a wide range of built-in Styles and Presets that not only allow you to add a visual effect to images but you can also use them to add specific adjustments and metadata to images in your daily workflow. You can also create and apply your own customized Styles and Presets.

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An overview of Styles

Capture One ships with a number of built-in high-quality Styles that can be used to optimize your workflow and save time when you need to modify an image or apply a certain effect or look to images. Styles are the combined settings from multiple tools that are applied to images in a single step. Like Presets (the saved settings from individual tools), Styles are the same kind of adjustment settings that are made in Capture One during a typical round of image editing.

While the Built-in Styles may be used on their own to apply an effect, they can be used as a starting point for further adjustment, or customized and saved as a User Style. Like all of the adjustments in Capture One, they don't alter the source image file, they are simply instructions on how to process the image. You can amend or revise those instructions endlessly, it makes no difference to the source image.

User Styles are not limited by the choice of settings or the number of tools used. For example, a User Style may comprise of a combination of color corrections, as well as settings from the curves, clarity and vignetting tools, adjustments such as cropping or keystone correction, and include values added to the IPTC metadata fields.

Capture One also allows you to stack or combine Styles and you can even save those Stacked Styles as a User Style. You can also add Presets or groups of Presets to User Styles, allowing you to apply groups of adjustments at practically every step in your editing workflow (see below for more information on Presets).

Creating individual User Presets for items such as rights usage terms, contact



details and instructions, for example, is a great time-saver. Not only can these be stacked but they can be customized and saved as a User Style and named for each client.

Styles and Presets can be applied at any time, even on import, so if the work has been commissioned you could apply the necessary IPTC metadata before you start editing. After that, you could for instance preview and apply a color grade, convert some variants to black and white, add film grain and then preview and apply the most appropriate sharpness settings.

User Styles can also be shared between users - there are number of sources of free and commercial User Styles available. There's practically no limit to the versatility of Styles and Presets. Styles are accessed from the Styles and Presets tool in the Adjustments Inspector or from the Adjustments menu.

Styles and Presets can be applied to layers. You can apply them directly from the Styles and Presets tool to a filled layer or the background, or if your working with layers already, you can use the dedicated Layers tool instead.

Note that Capture One **Cultural Heritage** offers additional built-in Styles crafted specifically for Film Scanning that can accommodate B&W and color transparencies and negatives as well as other transmissive materials. Read more about those [here](#).

Applying a Style ^{Pro}

Capture One Styles do not dynamically alter adjustments based on the image it's applied to. Each style comprises of a group of fixed settings or values. There is, for example, no automatic adjustment of the Exposure, High Dynamic Range or the Levels tools.

If you want to apply automatic adjustments you should apply those first either at the time of import or from the Adjustments menu > Configure Auto Adjustments, or by clicking on the A icon in the main tool bar (click and hold the A icon to see what tools are are being adjusted).

It is not necessary to make a color correction (i.e., apply a white-balance) before working on an image using a Style. However, in certain circumstances it may be necessary to make a white-balance adjustment after the Style has been applied.

1. Select an image in the browser.
2. Navigate to the **Styles and Presets** tool in the Adjustments Tool Tab, or from the Adjustments menu. (Alternatively, select the Style tool icon in the main tool bar. Note the Style tool icon is not added by default. For more information, see [Customize the Toolbar](#).)
3. Go to the Built-in-Styles folder (or User Styles folder, if you have created any) and scroll over the list.
4. You can preview the effect of the Style in the Viewer by hovering the cursor over the named Style in the list. The selected Style will be highlighted in the list and, after a short delay, the effect will be previewed on the primary variant or all selected variants and corresponding thumbnails, in the browser.
5. To apply the Style to the image, click-on the desired Style from the list. A small check-mark will appear in front of the selected Style in the list and the image will be updated in the Viewer. (If you select the wrong Style, click-on it again in the list to remove the check-mark. The image will be updated in the Viewer (without the previously applied Style). Adjustments are automatically saved to the image or images, like any other in Capture One.
6. When selected, the Style is listed under the Applied folder (click on the disclosure triangle, if not displayed). All Styles applied to the selected image are listed.



Applying Styles and Presets to layers

Capture One enables you to apply a Style or Preset to a layer, either as a new filled layer to use as an offset for example, or you can apply it to an empty layer then use a gradient, or the brush to add the adjustments.

Working directly from the Style and Presets panel has a similar workflow to

that of most of the other tools and enables you to choose the effect first before deciding on the layer to apply it to, whether that's to the background, selected layer or a new filled layer. The layer is automatically named with the chosen Style or Preset, when the Apply to New Layer (i.e., a new filled layer) option is chosen.

Note although certain Presets can be stacked, you cannot add more than one Style to the same layer. When you want to apply more than one, create a new layer and apply the Style to that instead. Like working with any layer, the adjustments made to each are additive, including any made to the background layer.

If you're working with the Layers tool you can apply a Style or Preset directly from there (for more information, see the section on working with [Styles and Presets in Layers](#)).

1. Select an image in the Browser.
2. Go to the Adjustments Tool Tab.
3. From the **Styles and Presets** panel, unfold the Styles and Presets from the collections and scroll over those in the list. The effects of each will be displayed in the viewer. (Do not select a Style at this time, otherwise it will be automatically applied to the background as normal.)
4. Highlight the chosen Style or Preset from the list, then select ctrl/right-click. The context menu opens, select from the following choices:
 - o **Apply to Background** - Adjustments are applied to the image as normal (i.e., on the background layer)
 - o **Apply to Selected Layer** - If you've already created (and selected) a layer in the Layers tool, the adjustments will be applied to the layer itself. If the layer is empty (i.e., without a mask), use this option to apply a gradient mask or brush-in the adjustments.
 - o **Apply to New Layer** - Choosing this option creates a new filled layer and applies the adjustments to it. The layer is given the name of the applied Style or Preset. If this option is grayed-out, then the settings for this Style cannot be applied to a layer.
5. If desired, repeat to add layers with different Styles (e.g., if you selected the background to apply a normalization correction).



Creating a User Style ^{Pro}

When creating a new Style (i.e., a User Style) using the Styles and Presets tool, all of the applied adjustments are automatically selected. Therefore, consider carefully whether you want to include specific settings such as White Balance, Exposure and Noise Reduction settings.

As you can edit the Style from a Save Style clipboard window before saving it, it is simple to remove those and other highly specific settings, such as Color Tags, Keywords, Crop, Keystone correction and more. After creating and applying the User Style to your images, you can add them retrospectively, using the dedicated tools.

Before starting work on an image, it may be helpful to make another to apply the adjustments to for a comparison. To make another, press F2/F7 (macOS/Windows), or select Image > New Variant, and then select both (Cmd/Ctrl-click (macOS/Windows)).

After a Style is saved on your computer it can be imported and shared by other users. The Capture One Style format .costyle can be copied to other computers and between platforms.

1. Perform your preferred adjustments to the new image.
2. Navigate to the Adjustments Tool Tab and go to the **Styles and Presets** tool.
3. From the tool's title bar, click on the Action menu icon (...) and select **Save**



- User Style** from the menu. The **Save Style** clipboard window will open, displaying all of the selected adjustments.
4. Uncheck the settings that you do not want to include in the Style. If appropriate, you can use this opportunity to remove highly-specific adjustments or metadata, for example white balance, color tags and ratings, and usage terms.
 5. Click **Save** (or Cancel to start over). If Save is selected, a dialog window opens.
 6. Name and save the Style, using an appropriate and meaningful name.
 7. To verify the new Style (if you have more than image in the Viewer, deselect the Edit Selected Variants option, if enabled), go to Styles and Presets tool and, using the cursor, either select or hover the cursor over the Style in the list in the User Styles folder. All of the saved User Styles will be displayed there for future use.

Stacking Styles and Presets

You can apply or stack more than one Style (ie. Built-in Style or User Style) to an image (or group of images). Although stacking can be used to apply a bewildering combination of adjustments, it is perhaps best used with a number of custom User Styles or (User Presets) with fewer adjustment settings dedicated to certain steps in the editing workflow.

For example, you could have a User Style for a certain color-balance, a User Preset with certain IPTC metadata and keywords, and another User Preset for a specific sharpening routine. If you have several choices for each type, you can optimize the combination depending on the image, and even save those stacked-combinations as a new User Style.

Note stacking Styles and Presets is not an additive process. Each Style and Preset is compared and, where they adopt adjustments for the same tools, the last applied Style or Preset overrides the previously applied one. For example, when Style 1 applies a +1 EV exposure adjustment, and Style 2 applies a +1.5 EV exposure adjustment, the adjustment applied will be +1.5 EV.

Capture One allows you to stack Styles and Presets from either the dedicated Styles and Presets tool, or from the Adjustments menu. Note you must enable the Stack Styles option first before attempting to stack them, otherwise the previous one is replaced with the newer one.

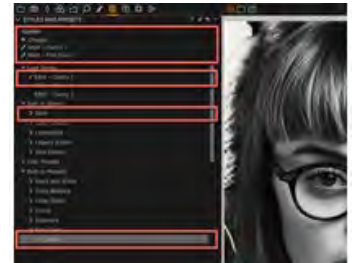
For a clearer overview when stacking, it is recommended that the Style and Presets tool is adopted from the Adjustments Inspector instead of the Adjustments menu.

1. Navigate to the **Styles and Presets** tool in the Adjustments Tool Tab and click on the Action menu icon (...). The Action menu dialog opens.
2. Select **Stack Styles**, adding a checkmark in front.
3. To apply the first Style, follow steps 1 through 6 above, listed under Applying a built-in Style or User Style.
4. To add an additional Style, repeat steps 4 and 5 above. The image in the Viewer will be updated with the combined result of the applied Styles. (If you select the wrong Style or want to remove a Style, click on the active Style in the list to remove the checkmark. The image will be updated in the Viewer (without the previously applied Style).
5. All Styles applied to the selected image will be displayed under the **Applied** folder (click on the disclosure triangle, if not displayed). The last applied in the group is listed first (and will, therefore, override the other adjustments for the same tools, where relevant).
6. When more than three Styles are applied, scroll through the list to see the additional Styles.

Copying Styles between images

When working on images that were captured at a similar time, it is likely that similar adjustments can be applied to all of the images in that group. In that case, it may be beneficial to apply Styles and any individual adjustments at the same time (i.e., simultaneously to both the primary variant and selected variants).

Styles can be quickly copied between images using the usual copy and apply



commands (i.e., from the contextual menu, the adjustments menu, and from the copy icon in the tool bar). In addition to applying Styles, any individual adjustments made to the primary variant are also copied to the selected images.

When you want to copy only the Style (and no other adjustments accidentally), you can copy it directly to the Adjustments Clipboard using the Copy to Clipboard option from the tool's Action menu. Only one may be copied at a time, as selecting another replaces it in the clipboard.

Note that although a quick global copy and apply can be used without using the Adjustments Clipboard tool, it is useful when copying Styles to verify the adjustments. Where highly specific settings for tools such as exposure, white-balance color, crop and certain metadata are included, you can use the Adjustments Clipboard to deselect them if you don't want them.

1. Select an image in the browser with the Style or stacked Styles applied that you want to copy. Note the image may include individual adjustments in addition to Styles.
2. To copy all the adjustments, go to the **Adjustments Clipboard** (which may be either blank initially or showing a list of settings if used recently) and press **Copy**. Alternatively, to copy only the Style (or Preset), click on the Action menu button (... icon) in the header bar of the Adjustments Clipboard tool, select Copy to Clipboard and then select the required Style or Preset.
3. Deselect any adjustments that aren't required, particularly specific items such as white-balance, exposure, noise reduction, ratings, tags and keywords, if it's your intention to create a general-purpose User Style.
4. To keep the Styles data separate from other adjustments when copying between images, make sure the **Include Style Name** option in the tool's Action menu is enabled with a check-mark. Styles data remains visible and editable. (If unchecked, Styles data is merged with other adjustments, making subsequent editing or removal of individual Styles impractical.)
5. Select the images you want to apply the Styles and any individual adjustments to in the Browser, using the Cmd/Ctrl (macOS/Windows) key.
6. To apply the adjustments from the Adjustments Clipboard, press **Apply**.
7. The selected images will have the Styles and any additional adjustments applied to them.
8. (Optional.) Save the combination as a User Style, see below for more details.

Saving adjustments as a Style

Any combination of tool settings that are copied to the Adjustments Clipboard can be saved as a User Style.

Every tool that can be used to make an image adjustment in Capture One has a copy button (double-ended arrow icon) for copying the settings to its own individual clipboard, and ultimately to the Adjustments Clipboard, located in the Adjustments Inspector.

While that method is perhaps preferred when creating very specific Styles, you can of course copy all of the adjustments applied to an image using the global copy command and in-turn to the Adjustments Clipboard.

With the Autoselect Adjusted option enabled (that automatically detects and selects the adjustments), this is similar to the Save User Style option found in the Styles and Presets tool, and is the quickest method for saving adjustments



as a User Style.

Both options allow you to exclude certain items from the Clipboard before creating the Style. Ultimately, which method you choose will likely depend on personal preference.

1. Select the image in the browser and perform your adjustment using your chosen tool.
2. Click on the double-headed arrow icon in the tool's title bar. The tool's individual **Adjustments Clipboard** window opens.
3. Click on **Copy**, to save the adjustment to the Adjustments Clipboard (and in-turn the global Adjustments Clipboard).
4. Repeat steps 1 to 3 for each tool. (Alternatively, make adjustments to your image using multiple tools and copy them afterwards in one step, using any of the global copy commands.)
5. Navigate to the Adjustments Inspector and go to the **Adjustments Clipboard** tool. The Adjustments Clipboard will be enabled, displaying a list of the tools.
6. From the Adjustments Clipboard, select **Copy**.
7. Verify the adjustments have been transferred from the tools to the global Adjustments Clipboard. If they haven't, click on the Action menu (...) in the Adjustments Clipboard tool's title bar and verify the **Autoselect Adjusted** option is enabled. If not, choose **Select Adjusted** from the menu. The adjustments will now be displayed in the list.
8. Deselect any adjustments that aren't required.
9. From the Action menu (...), select **Save As Style...** A Save window opens. Give the Style a memorable name and select **Save**.

Removing an applied Style

When you are already working from the Styles list (either in the Style and Presets tool or from the Adjustments menu), you can remove an applied Style by clicking on it to remove the checkmark. If not, it is usually quicker to remove the Style listed in the Applied folder, located at the top of the Styles and Presets tool or menu. Note the Style (i.e., Built-in Style or User Style) is removed from the selected image, it is not deleted and can therefore be re-applied at anytime.

1. Select the image in the browser with the applied Style you want to remove.
2. Navigate to the **Styles and Presets** tool in the Adjustments Tool Tab, or go to the Adjustments menu or the optional Styles (brush) icon in the main tool bar and choose between the following two options:
 - o Select the Style from the **Applied** folder, left- or right-click and choose **Remove**.
 - o Scroll through the list of Styles and click on the active Style in the list to remove the checkmark. (Click on **Remove**, when working on the list in the Style and Presets tool, as illustrated.)
3. The image will be updated in the Viewer (without the previously applied Style).



Importing Styles

Capture One allows you to import Styles (i.e., User Styles) that you've either created on another computer or that you've acquired from another source. Besides being able to choose from the growing number of Capture One Styles available to download for free and for purchase on the internet, this option is particularly useful when you want the same Style available on one or more of your computers, and saves time copying the settings between them. Styles are cross-platform compatible and so can be shared between Mac and Windows machines.

Capture One supports the import of single Styles (with a **.costyle** extension) and multiple Styles arranged in folders as part of a Style Pack (with a **.costylepack** extension). Note, if Styles are delivered as a Zip file, the package will have to be opened (i.e., unzipped) first before importing.

1. Go to the Styles & Presets tool in the Adjustments Tool Tab and click on the Action menu icon (...). The Action menu opens. Select **Import Styles**. Alternatively, go the Adjustments menu > **Styles > Import**.



2. The system Downloads Folder in the Finder/Windows Explorer opens.
3. Navigate to a single Style, or Style Pack and press **Open**.
4. The Style or Styles (where appropriate) are imported into the User Styles Folder, available from the Styles and Presets tool in either the Adjustments Inspector or the Adjustments menu.

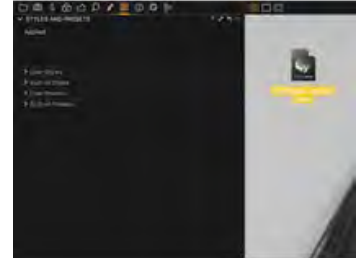
Importing a Styles Pack

Capture One also supports the importing of Styles Packs. These files are a compressed Zip-type package with a ".costylepack" file extension, consisting of multiple Styles (and their sidecar files, where specified). They greatly simplify the importing and organizing of Styles within the application. Where multiple Styles have been arranged in folders and sub-folders, the entire directory structure is maintained in the Styles and Presets tool, or from the Adjustments menu, allowing presets to be grouped by type (e.g. Color, B&W, Grain, Film Speed, etc).

Styles Packs can be purchased from Phase One at the [online store](#), as well as through official Phase One Ambassadors.

Note, if the Styles Pack is delivered as a Zip file it will have to be opened (i.e., unzipped) first before being imported. Importing Presets from a Styles Pack is not supported. Presets are stored in separate sub-folders in the application, therefore if there are any Presets included in a Styles Pack they may not be imported correctly.

1. A Styles Pack can also be imported using any one of the following methods:
 - o Go to the **Style and Presets** tool and click on the context menu (...), select **Import Styles**, navigate to the Style Pack and select **Open**.
 - o Drag and drop the Styles Pack file on the Viewer.
 - o Double-click on the Styles Pack in the Finder/Explorer (Mac/Windows).
 - o Drag and drop the Styles Pack file on the Capture One icon in the dock (Mac only).
2. The Styles are imported into the User Style Folder available from the Styles and Presets tool, or from the Adjustments menu.



Deleting a Style

When you want to delete a User Style that you've created or acquired from another source, Capture One will delete it from the application. Note you can only delete a single Style at a time using this method. **Warning!** The Style is moved to the System Trash. If you've purchased a Style and want to use it in the future, please make sure you either recover it from the Trash before emptying, or that you have another copy that you can access. Note you cannot delete a Built-in Style.

1. Select an image in the Viewer and then select from either:
 - o Adjustments menu > Styles > Delete User Style > [Name of Style to delete]. Then continue from Step 4.
 - o Go to the **Styles and Presets** tool in the **Adjustments** Tool Tab and head to **User Styles** folder. (If there aren't any displayed you may have to click on the disclosure arrow).
2. Select the User Style that you want to delete in the list, and right-click on it. A menu with two items (Remove/Delete) will open. Note, as confirmation that you have selected the correct Style, the Viewer will be previewed with the Style initially and then after a pause it will be removed.
3. Press **Delete**. A confirmation dialog box will open.
4. Press **OK** to delete the file. **Warning!** The Style is moved to the System Trash, pending permanent deletion.



An overview of Presets

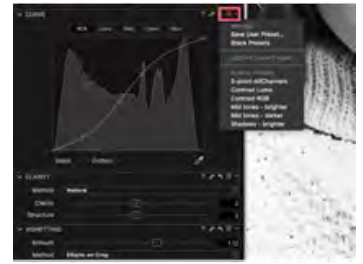
Practically every adjustment tool in the Tool Inspectors has the option to save adjustment settings as a User Preset, and most adjustment tools have a number of Built-in Presets. Each tool has a Manage Preset menu (i.e., three-

bar icon) where you can access and apply the corresponding tool's Presets directly.

The Built-in Presets may be useful in their own right or they can be used as an initial setting or starting point for that particular tool, prior to further adjustment. In addition to selecting and applying the Preset to the corresponding tool, individual tool Presets can also be stacked. Although there's no real restriction, in practice this option is likely to be relevant to a small number of tools.

For example, you're unlikely to want to stack a number of sharpening settings, however, you may well have a need to apply different combinations of keywords, and IPTC Photo Metadata properties, such as the Caption/Description writer, Creator's Contact details, Licensor and Instructions.

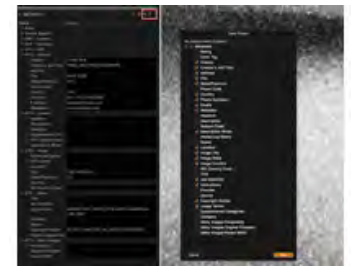
Both Built-in Presets and customized User Presets can also be accessed from the Presets Library in the Adjustments menu > Styles > Built-in Preset) or from the Styles and Presets tool in the Adjustments Inspector. This option is provided so that you can see every Style and Preset available to you and you can apply each one from there. You can stack Presets by tool, and stack Presets with Styles. Such is the flexibility, you can even create a User Style from a group of Presets or with a mix of Presets and other Styles.



Creating a User Preset

Most adjustment tools in Capture One have a Manage Preset menu where you can save the settings as a User Preset. When using tools where repetitive settings with fixed values are common, such as when sharpening or adding keywords or IPTC metadata, it makes sense to create a number of Presets for each tool.

1. Select an image to work on in the Viewer.
2. Select the tool you want to make a preset for from the Inspector and make the necessary adjustments.
3. Click on the **Manage Preset** menu (i.e., three horizontal-bar icon) in the title bar at the top of the tool.
4. Select **Save User Preset...** from the drop-down menu. A Save Preset dialog box will open, listing the individual settings. Note in some cases there are a large number of individual settings applied. Either confirm the choices or disable those that aren't required by removing the checkmarks.
5. A Save dialog box will open. Add an appropriate name and save the Preset.



Applying a Preset

Practically every tool that can be used to make image adjustments has a range of Built-in Presets. You can use these as suggestions or use them as a starting point for further adjustment. Any customization of these Presets can themselves be saved as a User Preset, saving you the trouble of repeating the adjustments in future. All User Presets created specifically with the tool will be displayed in the tool's menu (and the Presets Library) and are applied in the same way as the Built-in Presets. You can usually preview the effect on an image in the viewer before applying a Preset.

1. Select an image to work on in the Viewer and choose between:
 - o Select the relevant tool from the Tool Tab, and click on the **Manage Preset** menu (i.e., three-bar icon) in the title bar at the top of a tool. A **Manage and Apply** menu will open and any Built-in or User Styles applicable to the selected tool will be displayed.
 - o Go to the Adjustments menu > Styles > User Presets >
 - o Go to the **Styles and Presets** tool in the **Adjustments** Tool Tab and head to User Presets/Built-in Presets folder as appropriate. (If there aren't any displayed you may have to click on the disclosure



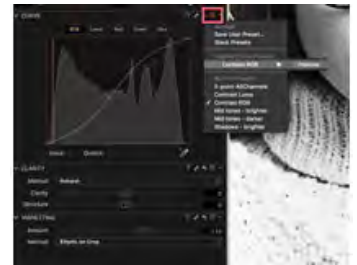
arrow).

2. To see the effect on the image in the Viewer, hover the cursor over the Preset in the list. Note in some cases it may not be possible to observe the effect or application of the settings without referring to the tool itself.
3. To apply the effect to the image, click on the Preset in the list. The image in the Viewer will be updated, if different to the previewed Preset. If you make a mistake, reselect the Preset from the list and click on it a second time. The image will be updated with the Preset removed.

Removing an applied Preset

Removing a Preset removes the Preset's settings from the image that it has been applied to and therefore it can be reapplied at anytime. This action is applicable to both types of Preset - User Presets and Built-in Presets. The Preset can be removed from the Tool it was created in or from the Styles and Presets tool in the Adjustments Inspector or the Adjustments menu.

1. Go to the **Styles and Presets** tool in the Adjustments Tool Tab and select the Preset to remove from the list in the User Presets or Built-Presets folders, Ctrl-click/right-click (Mac/Windows) to open a two-option menu (Remove/Delete) and select **Remove**. The Preset can also be removed from the Adjustments menu. Select the Preset in the list and click on it to remove the checkmark.
2. Alternatively, navigate to the tool where the User Preset was created.
3. Click on the Manage Preset icon (three horizontal bars) in the title bar at the top of the relevant tool. The Manage and Apply menu opens.
4. Go the **Applied [Tool Name] Folder**, listing the applied Presets for that tool.
5. Select the Preset from the list and click on **Remove** from the single-option menu.
6. The Preset is removed and the image is updated in the Viewer.



Deleting a User Preset

User Presets can be deleted either from the tool they were created in or from the Styles and Presets tool in the Adjustments Tool Tab. Warning! Presets are moved to the System Trash, pending permanent deletion.

Note in some cases when navigating away from a Session Folders to images in the System Folders and then creating a User Preset, the Delete User Preset option may be unavailable, and displayed grayed out. Should that occur, navigate back to the Session Folders, click on a Session image and then follow the steps listed below.

1. Go to the **Styles and Presets** tool in the Adjustments Tool Tab and select the User Preset to delete from User Preset folder, Ctrl-click/right-click (Mac/Windows) to open a two-option menu (Remove/Delete) and select Delete.
2. Alternatively, navigate to the tool where the User Preset was created.
3. Click on the Manage Preset icon (three horizontal bars) in the title bar at the top of the relevant tool. The Manage and Apply menu opens.
4. Select **Delete User Preset...**
5. A fly-out menu will open, listing the User Presets for that tool.
6. Select the User Preset to delete. A warning dialog box will open, asking you to confirm the choice.
7. Press **Delete** to remove the Preset permanently. **Warning!** The User Preset is moved to the system trash, pending deletion.

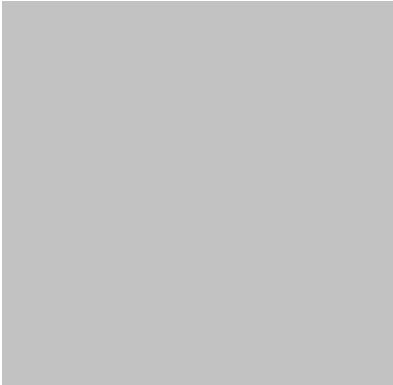


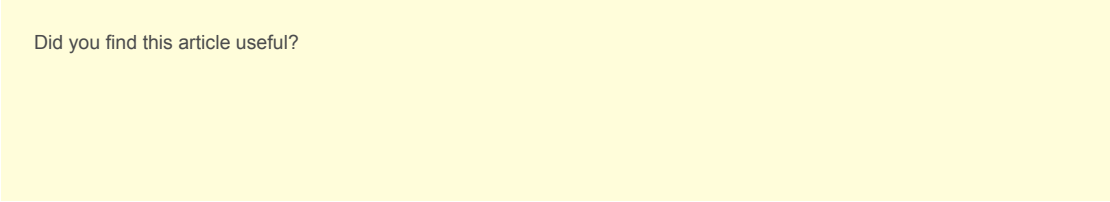
Saving Presets as a Style

Multiple Presets from individual tools can be saved as a User Style.

1. Select an image with all the intended adjustments applied from your chosen Presets and then choose between:
 - o Go to the **Adjustments** menu > **Styles > Save User Style...**
 - o From the Adjustments Tool Tab, go to the **Styles and Presets** tool, click-on the Action menu (...) icon in the tool's title bar and select **Save User Style...**



- 
2. A Save Style Dialog box opens, showing a list of all of the settings selected by tool for the chosen image.
 3. Select **Save**. A Save Style dialog opens.
 4. Choose an appropriate name for the Style and select **Save**.



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Layer Adjustments^{Pro}

[LAYERS / LOCAL ADJUSTMENT / MASK / LAYER ADJUSTMENT / CLONE AND HEAL / GRADIENT](#)

Capture One Pro allows you to make targeted adjustments to your photos using the majority of the image editing tools from the Layers tool. There are three ways to create a mask for your localized image adjustments: Painting with a brush or by creating either a Linear Gradient Mask or a Radial Gradient Mask that can be readjusted at any given time. In addition, repair is available using the brush-based Heal and Clone tools.

Working with Layers and Masks

When more complex editing is required, Capture One's Layers tool enables you to combine brush adjustments, gradients and repairs to masked areas using multiple layers.

Applying local adjustments with Draw Mask^{Pro}

Capture One's Layers tool enables you to directly brush in adjustments on-screen in real-time. Find out about the brush and its settings.

Applying Adjustments using a Linear Gradient Mask^{Pro}

The Draw Linear Gradient Mask feature enables you to create a mask with a gradual transition in opacity between two end points. With an adjustment applied, such as a negative exposure correction, the effect is similar to applying an optical graduated filter.

Applying Adjustments using a Radial Gradient Mask^{Pro}

The Draw Radial Gradient Mask feature enables you to create a round or oval mask with a gradual transition from the center to the outer perimeter. You can apply any of the layer-aware image adjustment tools to tweak exposure, color or contrast to the masked area.

Luma Range Masking^{Pro}

Luma Range is a powerful masking feature that will let you use luminosity values to control which part of the image a Layer-based adjustment should affect.

Editing and enhancing masks

Masks can be edited and enhanced by a number of features like refining the edge of the mask or applying a feather to it.

Color Range Mask

Capture One enables you to create a mask from a color range using the Color Editor tool.

Working with Styles and Presets in Layers

Capture One's Layer's tool allows you to apply Styles and Presets selectively to your images. You can also save adjustments as a Preset and apply those to batches of images.

Repairing Images

The Layers tool in Capture One Pro has individual brush-based Heal and Clone tools for localized repairing of images.

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Working with Layers and Masks

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When more complex editing is required, Capture One's Layers tool enables you to combine brush adjustments, gradients and repairs to masked areas using multiple layers.

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Overview of layers and masks ^{Pro}

The tools in Capture One typically apply global adjustments to the whole image, however there are times when you want to perform corrections to a specific part of the image. For example, you might want to simply sharpen the eyes in a portrait, fix some blemishes or apply a graduated filter effect.

There are three ways to create a mask: Painting with a brush or by creating either a **Linear Gradient Mask** or a **Radial Gradient Mask** that is non-destructive in nature and therefore can be readjusted easily at any given time. They can all be accessed from either the Layers tool, the Cursor toolbar, or by using their assigned keyboard shortcuts.

The most versatile is the brush tool, called **Draw Mask**. This lets you apply adjustments to specific areas in an image by painting a mask over the desired areas. The **Linear Gradient Mask** and the **Radial Gradient Mask** on the other hand works by creating a gradient area that you can always readjust: They are applied in a non-destructive fashion, meaning that you can always change the size, shape, rotation, feathering and position of the mask after the fact.

Once a mask has been created you apply the image adjustments in the same way as you would when making global adjustments. You can make any combination of image adjustments from different tools on the same Layer mask, so nothing prevents you from tweaking both Exposure, Clarity and Color Balance to one specific Layer mask.

If you need to apply a number of localized image adjustment to different parts of the image, just create a new layer with a separate mask. You can create as many as 16 individual layers per image.



Creating and selecting layer types ^{Pro}

You can create a mask and layer in one go simply by selecting and using either **Draw Mask (B)**, **Linear Gradient Mask (G)** or **Radial Gradient Mask (T)** there might be times where it is better to create and name individual layers first to get organized. This is especially true when you need to use the clone or heal tools to repair images as they can only be accessed through dedicated clone or heal layers.

1. Go to the **Layers** tool or and long-press on the create New Layer button (+) icon and select from the following choices:
 - o **New Empty Layer** - New layer without mask using the brush or gradient for image adjustments.
 - o **New Filled layer** - New layer complete with a mask covering the whole image. Used for brushing away adjustments, or brushing away the mask, when it is the simpler option.
 - o **New Clone Layer** - New layer specifically for repair using the cloning brush.
 - o **New Heal Layer** - New layer specifically for repair using the heal brush.

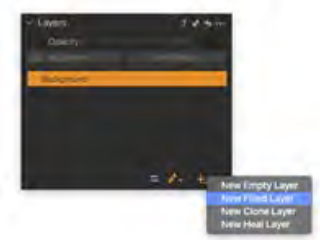
or:

1. 1. Go to the **Layer** menu and select from the following choices:
 - **Add New Empty Adjustment Layer** - New layer without mask using the brush or gradient for image adjustments.
 - **Add New Filled Adjustment layer** - New layer complete with a mask covering the whole image. Used for brushing away adjustments, or brushing away the mask, when it is the simpler option.
 - **Add New Clone Layer** - New layer specifically for repair using the cloning brush.
 - **Add New Heal Layer** - New layer specifically for repair using the heal brush.
2. The layer type is added to the Layers tool (press return to enter a new name), and to the drop-down menu in the Viewer's tool bar.
3. Draw a mask on the image. Select mask visibility as required. See [here](#) for more details.
4. When selecting the **Heal** or **Clone Layer** options, Capture One automatically selects the source point after drawing. If the appearance of the target area doesn't match the surrounding pixels, click on the source point and drag it to set your own sampling point. The source point can be moved anywhere within the viewer. For more information, see the [Repairing Images](#) section.
5. Remember to select the Background Layer in the Layers tool, or Viewer's tool bar, to make any global adjustments to the image.

Creating a new filled layer

The **New Filled Layer** option adds a new layer complete with a mask covering the entire image. This makes it inherently useful for several labor-saving tasks, such as when adding adjustments to the whole image except for small areas which can be brushed away with the **Erase Mask (E)** or when applying baseline adjustments in normalized workflows, color grades or simple auto adjustments, using a layer for each like versions within a variant.

1. Select an image.
2. Go to the **Layers** tool and long-press on the create **New Layer** button (+) icon and select **New Filled Layer** or go to the menu and select **Layer > Add New Filled Adjustment layer**.
3. A new layer complete with a mask is created and added to the **Layers** tool (press return to enter a new descriptive name).
4. Select the layer, if not already and add the chosen adjustment such as a color grade using the Color Balance tool or a Style or Preset (using the Apply settings to a current layer option) available from the Layers tool action menu. The applied adjustment is saved to the layer.



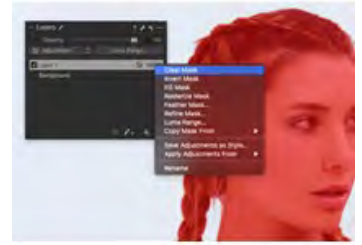
Read how you create and adjust a mask with the **Radial Gradient Mask (T)** [here](#)

Note when you want to remove blemishes, you will have to select either a clone or heal layer from the Layers tool or Viewer's tool bar. See the section on [Repairing Images](#) for more details.

Deleting a mask ^{Pro}

Capture One offers a clear mask option for the Layers tool that allows you to quickly delete the mask without using either the eraser or deleting the adjustment layer itself. As this option only deletes the masked areas on the selected layer on the chosen image, regardless of the number of variants selected, it is particularly useful when you've applied adjustment settings or a Style or Preset to multiple variants and you don't want that choice affecting the others.

1. Select the image or images in the Browser.
2. Go to the **Layers** tool and select the relevant adjustment layer from the list.
3. Right-click on the layer and choose **Clear Mask** from the list.
4. Any masked areas are removed from the selected Layer only. The Layer itself is not deleted.



Copy a mask to another layer ^{Pro}

Although you can apply more than one image adjustment to the same masked area, you might want to add a different adjustment to exactly the same area of the image and retain separate control over each mask on different layers. This can be done by copying a mask to another layer.

Note that the function will overwrite an existing mask without warning, so if you have a lot of layers, double check that you are copying to the correct layer first.

1. Go to the **Layers** tool.
2. Create a new layer or select an existing layer you want the mask to be copied to. For example, **Layer 2**.
3. Right-click on that layer and select **Copy Mask From > Layer No.** (e.g., **Layer 1**). The mask will be copied and applied to **Layer 2**.
4. The copied mask can now be adjusted further, and you can apply the desired image adjustments.

Note that you can copy a **Linear Gradient Mask (G)** or **Radial Gradient Mask (T)** to another layer and still retain the possibilities to readjust the mask on the new layer. This can provide a powerful workflow if you just need to tweak the coverage of the mask slightly on that new layer.



Fading adjustments

The Layers tool features a master Opacity slider, which enables you to lower or fade the amount of one or more local adjustments already applied to the mask, without altering the adjustment tools individually. The master Opacity slider is located beneath the title bar in the Layers tool. Selecting a layer enables the Opacity slider for use with only that layer. Only one can be adjusted at a time, and all the masks applied to the layer will be adjusted by the same value. When working on an image with a number of layers comprising of complex masks and adjustments, you can modify the effect of each layer very quickly. Next to the slider is a box where you can enter a value (%), either directly, or by using the arrow keys (use Shift+arrow keys to modify the amount by larger values). To save a result and compare the effects between adjustments, remember to use the Clone Variant option.

1. Go to the Layers tool.
2. Select the layer in the list with the adjustment you want to fade. (The mask should already have some local adjustment applied to it.) The master **Opacity** slider is then enabled.
3. Drag the master **Opacity** slider while observing the effect on the image in the Viewer. Alternatively, select the the text box and enter a value directly, or select then use the arrow keys (or Shift+arrow keys) to adjust by fixed values. The image will be similarly updated with the effect in the Viewer.
4. When the slider is moved the mask will be hidden (regardless of the



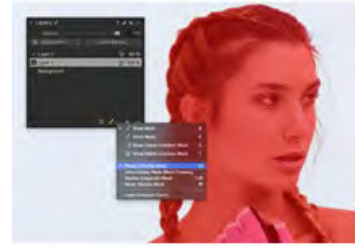
visibility setting selected), so that you can see the effect of the applied local adjustment on the image. The mask reappears after a short delay.

Displaying masked areas ^{Pro}

Being able to see the mask on-screen is crucial when making accurate selections, while at other times, for example, when brushing-in adjustments, it can obscure your view. Thus, when using the **Draw Mask (B)**, **Linear Gradient Mask (G)** or **Radial Gradient Mask (T)**, the Layers tool has several display options to suit a particular task.

After the mask has been applied you can evaluate the selection more clearly with a grayscale mask. This black and white preview shows the masked area in white, unmasked as black and gray tones depending on opacity. It is ideal for inspecting edge accuracy and the uniformity of the selection itself with regards to opacity. The masked area itself can be tidied up using either mask type.

1. Go to the **Layers** tool.
2. Long-click on the **Mask** button, and select from the following:
 - o **Always Display Mask (M)** - useful when examining the mask for drawing accuracy and feathering effect.
 - o **Only Display Mask When Drawing** - the recommended option for quick drawing.
 - o **Display Grayscale Mask (Alt-M)** - useful option to verify the accuracy of mask edges, including the overall effectiveness of the selection when inverted.
 - o **Never Display Mask (M)** - used when drawing individual local adjustments directly to the image or layer.
3. Use the keyboard shortcut (M) or (Alt-M) respectively, to toggle the mask on or off.
4. You can also access the Mask display options by going to the menu and choosing **Layer > Mask Visibility >**



Changing the color of the mask

The mask created when making a selection is displayed as a semi-transparent red color. This default color can be changed from the Preferences.

1. From the main menu, go to Capture One > Preferences... (⌘,) Mac, or Edit > Preferences (Windows). The Preferences dialog window opens.
2. Select the **Appearance** tab, then under **Layers**, click-on the Mask Color box. Depending on the OS, a color dialog window opens.
3. Select the color from the choices available. The chosen hue will be added to the Mask Color box.
4. Close the Preferences window and the mask color will be enabled. There's no need to restart the application.
5. If a mask has already been created, click on the Display Mask (M) option in the Layers tool to update the color.
6. To return to the default, reopen the Appearance tab and click on the Default button at the bottom of the page. Note, any other changes on that page will also be returned to the default settings.



Using selection points ^{Pro}

A single selection point will appear close to the first application of a mask in an adjustment layer or in a repair layer. One Selection point will appear per layer, and will change color from silver to orange when active. Clicking on one will select that layer in the **Layers** tool, making it a quick and efficient way to move between them when editing, if there are several associated with that image.

1. To enable the layer selection points, go to the menu and choose **Layer > Layer Selection Points** and ensure that the option is toggled on.
2. To move between layers, click on the relevant selection point in the Viewer. Note, the selection point will change from silver to orange when selected. Toggle Display Mask (M), or Display Grayscale Mask (Alt-M) to view the selection.
3. To move the masked area, click the selection point and drag to the desired



- location. The mask will move with the selection point.
4. When the Show Selection Point isn't already enabled, cmd/ctrl-click on the mask instead and then drag to the new position.

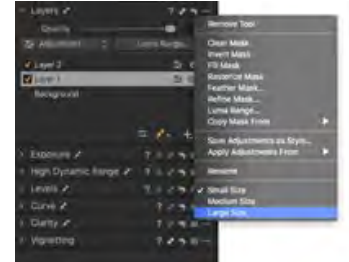
Keyboard shortcuts ^{Pro}

The Shortcut manager has been expanded to include a number of commands so that you can add your own customized keyboard shortcuts when working with layers. Shortcuts greatly improve the efficiency of your workflow. The shortcut manager is accessed from the main menu under **Edit > Edit Keyboard Shortcuts...** For more information on the subject, see the section on [Keyboard Shortcuts](#).



Modifying the size of the Layers tool panel

Like a number of the tools in Capture One, the size of the Layers tool's panel can be adjusted to accommodate the number of layers in use. This is especially useful where there can be as many as 16 individual layers to display and work with. Along with two fixed size options an Auto size option varies the size of the window depending on the size of the other tools' windows in the tool tab, when either opened or closed. Note, it may be possible to increase the size of the window by closing others in the same inspector. Note also that, certain tools can be resized when removed from the inspector to float in the viewer.



1. In the Layers tool's title bar, click on the Action menu (...) icon. The Action menu opens.
2. Select from the following choices:
 - o **Small Size** (fixed)
 - o **Medium Size** (fixed)
 - o **Auto Size** (automatically determined by the size of the other tools' windows in the inspector)
3. The window size is saved automatically.

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Applying local adjustments with Draw Mask^{Pro}

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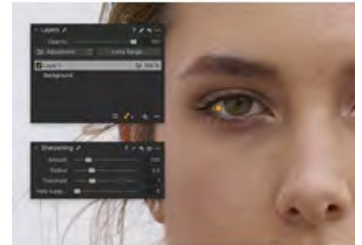
Capture One's Layers tool enables you to directly brush in adjustments on-screen in real-time. Find out about the brush and its settings.

- Brushing in adjustments
- Brushing away adjustments
- Editing brush strokes
- Modifying size and hardness
- Modifying Opacity and Flow
- Enable pen pressure support
- Enabling edge detection
- Shortcuts for working with the brush tool

Brushing in adjustments

When a simple localized adjustment is required, you can brush in the effect directly. This technique is particularly useful, for example, when adding sharpening or clarity, or you're making some simple exposure adjustments. More complex adjustments such as "dodging and burning" can also be performed this way. Note, however, that when applying positive and negative exposure adjustments, a layer for each is required. See the section on [Layers and Masks](#) for more information.

1. Select the brush from the following:
 - o Shortcut Draw Mask (B).
 - o Mask Cursor group (fourth group from the right) in the Cursor tool bar. Press and hold active Add/Erase Mask Mask cursor to display the menu and select **Draw Mask** (B).
 - o From the foot bar in the **Layers** tool (second group from the left). Press and hold active Add/Erase Mask button to display the menu and select **Draw Mask** (B).
2. Modify the brush parameters as required. See below for more information on Brush Settings.
3. To see the effect of the adjustment on-screen when brushing, from the Layers tool's foot bar (second group from the left). Press and hold button to display the menu and select **Never Display Mask** (M) from the menu.
4. Before brushing, select an adjustment tool and set the parameter slider to a particular value. For example, add a +0.6 EV Exposure adjustment.
5. Brush in the local adjustment as required. The image is updated in the Viewer with the applied adjustment.
6. To remove any unwanted areas of the mask, long press the Brush icon and select Erase (E) from the menu. Modify the Brush Settings as necessary and carefully brush away parts of the mask to tidy up.
7. For a quick 'before and after' view of the applied adjustment, toggle the orange check-mark adjacent to the relevant layer in Layers tool.



Brushing away adjustments

When you want add an adjustment to all but a small section of the image, you can create a New Filled Layer and then use the easer brush (E) to brush the mask or adjustment away from the area you want to exclude. To see the effect on a directly applied adjustment on-screen, select the

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relevant adjustment and Never Display Mask (M) from the Mask Selection menu, before brushing away. The edge detection feature of the Auto Mask can be a useful option to include when using the erase brush.

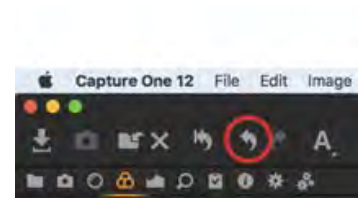
1. From either the **Layers** tool or the Viewer's tool bar, long-press on the New Layer button (+ icon) and select **New Filled Layer** from the menu. An Adjustment Layer is automatically created with a mask covering the whole image.
2. From the Layers tool's foot bar, long-press on the Add/Erase Mask button and select **Erase Mask (E)**, if not already selected. Repeat and select **Never Display Mask (M)**.
3. Modify the erase brush parameters before editing the mask. To open the Brush Settings dialog window, either click-on the slider icon in the Layers tool or ctrl/right-click in the Viewer.
4. Select an adjustment tool and set the parameter as required. For example, add a +0.6 EV Exposure adjustment.
5. Brush away the mask or adjustment. The image is updated in the Viewer with the modification.
6. To brush back areas of the mask or adjustment, long press the Add/Erase Mask button and select Draw Mask (B) from the menu. Modify the Brush Settings as necessary and carefully brush in parts of the mask to tidy up.
7. For a quick "before and after" view of the applied adjustment, toggle the orange check-mark adjacent to the relevant layer in the Layers tool.



Editing brush strokes

Although you can remove any unwanted part of the mask by selecting the erase brush (E) and brushing over the semi-transparent red areas, as you would typically in an Adjustment Layer, there are times when you want to start-over. Rather than deleting the layer, or clearing the mask, if the selection is relatively small and simple, it may be quicker to delete the selection using the undo command repeatedly and brush in a new one.

1. To display the mask when you want to verify the undo command, press shortcut (M).
2. To remove a brush stroke, click-on the Undo button (left-pointing curved arrow icon) in the main tool bar. Contiguously applied brush strokes can be deleted by repeatedly pressing the Undo button.



Modifying size and hardness

The Size slider naturally adjusts the size of the brush stroke, while the Hardness slider controls the feathering of the brush edge - the amount is displayed on-screen between the size of the outer and inner rings of the brush or eraser cursor. Drag the slider to the left (towards 0) to increase feathering, or to the right to decrease the effect. When a hard edge is required without any feathering, select a value of 100 (%). This is the maximum hardness that can be applied.

You can switch quickly between the Brush and Erase tools by using the keyboard shortcuts (B) and (E). Brush and eraser settings may be linked and synchronized, so that one stroke erases the other using the same Size and Hardness values.

1. Select the Brush by clicking-on the brush icon in the Layers tool, or from the Cursor tool bar.
2. Click on the Brush Settings button (slider icon), or alternatively Ctrl/Right-click anywhere in the image Viewer for quick access. The Brush Settings panel opens.
3. To adjust the size and feathering (hardness) of the brush adjust the two sliders;
 - o **Size** - Drag the slider to the right to increase while viewing the effect



on the Brush/Eraser cursor in the Viewer. Alternatively, press [or] keys to decrease or increase the Brush size respectively, enter text directly in the value box, or select and use the arrow keys or Shift-arrow keys to values by fixed values.

- o **Hardness** -Drag the slider to the right to increase hardness while viewing the effect on the Brush/Eraser cursor in the Viewer. Alternatively, press Shift+[or Shift+] keys to decrease or increase respectively.

Modifying Opacity and Flow

The Opacity controls the density or strength of the stroke. A value of 0 (%) effectively disables the slider and prevents the application of the mask, while 100 (%) applies the maximum amount. In most cases the setting can be left at 100 (%).

The Flow setting controls the rate at which the Opacity is applied, with 0 (%) also effectively disabling the application of the mask and 100 (%) being the maximum amount that can be applied per stroke to an area.

When the Airbrush option is enabled, providing the mouse button remains depressed (or if using a pressure-sensitive pen, the nib remains in contact with the tablet surface), the opacity will reach the value set, including any selected Hardness or feathering (i.e. to the outer edge) of the brush.

As an example, when the Opacity is set to 100% and 20% Flow is selected, 20% of the opacity of the mask is applied per stroke, until the maximum 100% level is reached. This can be achieved through additional strokes (four more in this instance), or, when the Airbrush option is enabled, through continued pressure of the mouse or pen. No number of strokes or pressure after that can increase the Opacity beyond 100%.

1. Select the Brush icon in the Layers tool, or from the Cursor tool bar.
2. Click on the Brush Settings button (slider icon), or alternatively Ctrl/Right-click anywhere in the image Viewer for quick access. The Brush Settings panel opens.
3. Adjust the opacity of the brush stroke; drag the **Opacity** slider to the right to increase the amount. You can view the effect on-screen, if the option to view the mask is enabled, see more here.
4. Adjust the rate or **Flow** slider, as required.
5. Drag the cursor on-screen to start applying the mask to the layer (unless otherwise selected, an Adjustment layer will be created).
6. To draw a perfectly straight line, hold down the shift key and draw.
7. To draw a straight line between two points, click on the first point then release and then shift-click on the second.

Enable pen pressure support

Capture One Pro can detect the pressure applied when using any type of interactive stylus for a graphics tablet. A stylus is typically pressure-sensitive and when the Use Pen Pressure option in the Brush tool is enabled, the harder you press down on the nib, the wider the brush stroke and therefore the mask will be. The mask gradually expands from the center of the brush tool outwards to the outer limit of the cursor ring, defined by the hardness slider. This feature includes both the nib and eraser, if it has one.

When a stylus pen features a built-in eraser at the opposite end to the nib, the selection is typically pre-programmed and there's no need to select Capture One's Eraser (E) option. If that's not the case you can usually customize the stylus software and assign that and any side-buttons to Capture One's shortcuts.

1. Select the Brush by clicking-on the brush icon in the Layers tool or from the Cursor tool bar.
2. Right click anywhere in the image Viewer or click on the Brush Settings button (slider icon) in the Layers tool.
3. A Brush Settings window will appear.
4. Now check mark the **Use Pen Pressure** option box.



Enabling edge detection

The Auto Mask allows you to make highly complex selections with the brush, based on areas of similar color and brightness, and is highly effective over short, single strokes. It is ideal when drawing masks of complex subjects, however, it can also be used for quick selections where boundaries are well-defined, such as a clear blue sky in a cityscape, or where an object with contrasting color in front of a plain background has been used in a studio.



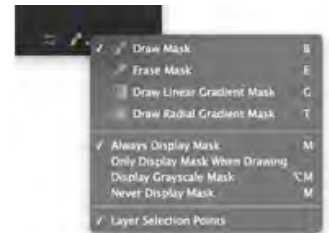
When masking complex areas prior to applying adjustments, it is recommended to work along the edges at high magnifications using a series of single short-strokes, moving around the perimeter until the selection is complete. You can then use either the Fill Mask option or continue to use brush to complete the selection. Note that, the Auto Mask option also works with the Eraser (E), where it's useful for editing masks made with the Brush tool.

1. Select the **Brush** (B) icon in the Layers tool, or from the Cursor tool bar.
2. Right click anywhere in the image Viewer, or click on the **Brush Settings** icon. The Brush Settings panel opens.
3. Check mark the **Auto Mask** option box, to enable the feature.

Shortcuts for working with the brush tool

Regularly using keyboard shortcuts will dramatically improve your workflow when working with layers and when making selections.

- Switch quickly between the Brush and Erase tools by using the keyboard shortcuts (B) and (E) respectively.
- Toggle the display the mask overlay on or off, using shortcut (M).
- To draw a perfectly straight line, hold down the shift key and draw.
- To draw a straight line between two points, click on the first point then release and then shift-click (hold down the shift key then click the mouse/pen) on the second.
- Quickly adjust the size of the brush. Press [or] to decrease or increase the brush size respectively.
- To move the mask in one piece using the brush tool, select the Cmd/Ctrl key (Mac/Windows) and click on the mask and drag into position.
- To move the mask layer selection point, hold down the Alt key and drag to the chosen position.



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Applying Adjustments using a Linear Gradient Mask^{Pro}

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The Draw Linear Gradient Mask feature enables you to create a mask with a gradual transition in opacity between two end points. With an adjustment applied, such as a negative exposure correction, the effect is similar to applying an optical graduated filter.

- [Overview](#)
- [Creating a Linear Gradient Mask](#)
- [Editing the Linear Gradient Mask](#)
- [Inverting the Linear Gradient Mask](#)
- [Using Brush on the gradient mask](#)

Overview^{Pro}

The **Draw Linear Gradient Mask** is applied in a non-destructive fashion, meaning that you can always readjust the length, position and rotation of the gradient mask after the fact. This feature is particularly useful when copying the Linear Gradient Mask to other similar images where you only want to tweak the position or coverage on some of the images.

The **Linear Gradient Mask** consist of three lines:

1. The **starting line** represents a 100 percent mask coverage and will thus provide a full effect of the selected image adjustment.
2. The **center line** represents a 50 percent mask coverage and will provide a 50% effect of the applied image adjustment. The center line is also used to rotate the gradient.
3. The **end line** represents a transition to 0 percent mask coverage and will end the image adjustment effect. Think of the end line as a way to control the feathering of the mask.

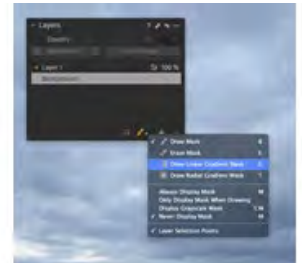
Although the typical use of the Linear Gradient Mask will be to adjust the exposure of a sky, you can combine Exposure or Highlight adjustments with Clarity or Color Balance adjustments, for example. It is also worth to mention that you can fade the overall effect with the Opacity slider for the Linear Gradient Mask layer.

Creating a Linear Gradient Mask^{Pro}

Creating a graduated filter effect is simple. Select the **Draw Linear Gradient Mask** cursor from the **Layers** tool, **Cursor Toolbar**, or use the keyboard shortcut G. Then click and drag in the Viewer to draw the gradient mask. The place you click first will apply a 100% mask coverage, and the gradient will then fade to 0% coverage at the point you stop dragging and let go of the mouse. You can apply the desired image adjustment before or after drawing the mask.

Since the **Draw Linear Gradient Mask** is applied in a non-destructive fashion, you can always readjust the linear gradient position, rotation and length after the fact by clicking and dragging the end lines. This will be explained later on.

1. Go to the **Layers** tool.
2. Long press the **Draw Mask** icon and select **Draw Linear Gradient Mask** (G) from the drop-down menu, or use the keyboard shortcut G.
3. To view the mask as an overlay while drawing the gradient mask, go to the



- menu and select **Layer > Mask Visibility > Always Display Mask** or use the keyboard shortcut M, which will toggle the mask overlay on/off.
- Click and drag the cursor over the desired image area in the Viewer. A new mask and layer are automatically created. The transition in opacity will go from 100% where you first clicked on the image and gradually fade to zero where you release the cursor.
- Make the desired image adjustments, for example, select a -1.0 EV **Exposure** adjustment. Use the keyboard shortcut M to toggle the mask overlay off, if it is on.
- The gradient mask can also be copied and applied to other images from the Layers tool.

Note that only one gradient mask can be applied to a layer at a time, so please create a new layer if you need more than one. Although you can't alter the opacity of the mask itself, you can fade the effect afterwards using the master **Opacity** slider.

Tip: Set the mask visibility to **Layer > Mask Visibility > Only Display Mask When Drawing** and make your image adjustment (like a negative **Exposure** when darkening overexposed skies) before applying the gradient. Then start to draw the gradient mask. This way you can see where the mask is being applied while you drag in the Viewer, and then see the effect of the image adjustment immediately when you let go as the mask overlay will disappear automatically.

Editing the Linear Gradient Mask ^{Pro}

If you want to edit the **Linear Gradient Mask**, ensure that you have selected the correct layer in the **Layers** tool and that you have selected **Draw Linear Gradient Mask (G)**. You can now move the start line or end line by dragging them, rotate the mask by hovering the mouse over the center line and dragging, or reposition the entire mask.

You can even adjust the distance from the start or end line to the center line independently by holding down Alt while dragging them. This way you can adjust the transition zone from 100% to 50% mask to cover a large area while the transition zone from 50% to 0% can be short.

- Go to the **Layers** tool and select the layer with a Linear Gradient Mask.
- Long press the **Draw Mask** icon and select **Draw Linear Gradient Mask (G)** from the drop-down menu, or use the keyboard shortcut G.
- Click on the start line or end line and drag them to adjust the gradient coverage. Hold down Alt to be able to adjust the start line or end line independently of the other; the center line will stay put and only the selected coverage zone will change.
- You can rotate the mask by hovering the mouse over the center line (the cursor will change to a rotate icon) and drag up or down. Hold down Shift while dragging to lock the rotation to angles of 45-degree increments.
- It is possible to reposition the entire mask by hovering the mouse anywhere over the gradient mask (the cursor will change to a move icon) and dragging it to a new position.

Useful keyboard shortcuts

- Hold down Shift while creating the **Linear Gradient Mask** to lock the rotation to angles of 45-degree increments.
- Click on a layer and hold down Command/Ctrl to reposition the mask without the need to have the **Draw Linear Gradient Mask** cursor selected.
- Hold down Alt while dragging either the start line or the end line to adjust the two mask transition zones independently.
- Hold down Shift while dragging either the start line or the end line to resize the mask symmetrically (the center line will stay put).
- Hold down Shift while dragging the center line to lock the rotation to angles of 45-degree increments.



Inverting the Linear Gradient Mask ^{Pro}

You can invert the **Linear Gradient Mask** which basically flip the mask coverage. It keeps the non-destructive nature, meaning that you can readjust the inverted Gradient Mask by moving it, dragging the start line or the end line to new positions, or rotate it.

1. Select the layer with the **Linear Gradient Mask** in the **Layers** tool
2. Right-click and select **Invert Mask** or choose **Layer > Invert Mask**.
3. You can now readjust position, coverage and rotation as you see fit (see above).

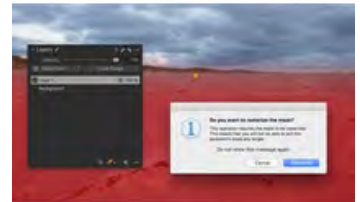


Using Brush on the gradient mask ^{Pro}

If you want to edit the **Linear Gradient Mask** with the brush by either adding or removing areas of the mask, it will need to be rasterized first. This operation basically changes the mask to be pixel-based, meaning that you cannot readjust the gradient after the fact. The resulting mask will then be the same type as if you were using the **Draw Mask** feature (or created a **Gradient Mask** in Capture One 11 and earlier).

1. Go to the **Layers** tool and select the layer with a **Linear Gradient Mask**.
2. Long press the **Draw Mask** icon and select **Draw Mask (B)** or **Erase Mask (E)** from the drop-down menu, or use the keyboard shortcuts B or E.
3. Click on the image in the viewer to start editing the mask. Capture One will now alert you that you are about to rasterize the mask. Accept by clicking on **Rasterize**.
4. You can now add or remove areas by painting with the brush, depending on whether you have chosen **Draw Mask (B)** or **Erase Mask (E)**.

Note that you can also rasterize the Linear Gradient Mask directly by right-clicking on the layer in question in the **Layers** tool and selecting **Rasterize Mask** or choose **Layer > Rasterize Mask**.



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Applying Adjustments using a Radial Gradient Mask^{Pro}

//

The Draw Radial Gradient Mask feature enables you to create a round or oval mask with a gradual transition from the center to the outer perimeter. You can apply any of the layer-aware image adjustment tools to tweak exposure, color or contrast to the masked area.

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- [Creating a Radial Gradient Mask](#)
- [Inverting the Radial Gradient Mask](#)
- [Readjusting the Radial Gradient Mask](#)
- [Using Brush on the gradient mask](#)

Overview^{Pro}

The **Radial Gradient Mask** might at first look similar to a mask created with the **Draw Mask** brush, but there are some key differences: You can only create one **Radial Gradient Mask** per layer, but the big advantage is that the mask is applied in a non-destructive fashion, meaning that you can always readjust the size, shape, rotation, feathering and position of the mask after the fact. This approach is particularly useful when copying the Radial Gradient Mask to other similar images where you only need to tweak the mask coverage for some images.



The **Radial Gradient Mask** consist of three lines:

1. The **inner line** represents a 100 percent mask coverage and will thus provide a full effect of the selected image adjustment.
2. The **center line** represents a 50 percent mask coverage and will provide a 50% effect of the applied image adjustment. This center line has two functions: You can rotate the mask with it and it has four control handles that is used to change the shape of the mask.
3. The **outside line** represents a transition to 0 percent mask coverage and will end the applied image adjustment effect. Think of it as a way to control the mask feathering.

Not only can you control the size, shape and feathering of the mask, you can also fade the overall effect with the **Opacity** slider for the Radial Gradient Mask layer.

Creating a Radial Gradient Mask^{Pro}

Creating a radial mask with a nice feathering effect is simple. Select the **Draw Radial Gradient Mask** cursor from the **Layers** tool, **Cursor Toolbar**, or use the keyboard shortcut T. Then click and drag in the Viewer to draw the radial mask. The first place you click will be the center of the mask and create a 100% mask coverage. The radial mask will then fade to 0% coverage at the point where you stop dragging and let go of the mouse. You can apply the desired image adjustment (like an Exposure tweak) before or after drawing the mask.



Since the **Draw Radial Gradient Mask** is applied in a non-destructive fashion, you can always readjust the size, shape, position and rotation after the fact by clicking and dragging on the lines and control handles. This will be explained later on.

1. Go to the **Layers** tool.
2. Long press the **Draw Mask** icon and select **Draw Linear Gradient Mask** (G) from the drop-down menu, or use the keyboard shortcut G.
3. To view the mask as an overlay while drawing the gradient mask, go to the menu and select **Layer > Mask Visibility > Always Display Mask** or use the keyboard shortcut M, which will toggle the mask overlay on/off.
4. Click and drag the cursor over the desired image area in the Viewer. A new mask and layer are automatically created. Notice how you can change the shape on the fly if you drag the cursor up/down or sideways before releasing the mouse button. The transition in mask opacity will go from 100% where you first clicked and gradually fade to zero where you release the cursor.
5. Make the desired image adjustments: For example, select a **+25 Clarity** adjustment. Use the keyboard shortcut M to toggle the mask overlay off, if it is on.
6. The radial mask can also be copied and applied to other images from the **Layers** tool.

Useful keyboard shortcuts

- Hold down Shift while creating the **Radial Gradient Mask** to draw a perfectly round mask in the 1:1 aspect ratio.
- Hold down Alt, then start creating the **Radial Gradient Mask** to draw from a top left point instead of from the default center point. This changes the drawing behavior to work like the Marquee selection tools in Photoshop.
- Hold down Alt + Shift, then start creating the **Radial Gradient Mask** to draw from a top left point and create to perfectly round mask in the 1:1 aspect ratio.

Note that only one radial mask can be applied to a layer at a time, so please create a new layer if you need more than one. Although you can't alter the opacity of the mask itself, you can fade the effect by using the **Opacity** slider in the Layers tool.

Tip: Set the mask visibility to **Layer > Mask Visibility > Only Display Mask When Drawing** and make your image adjustment (like a negative Clarity to soften skin tones) before applying the radial mask. Then start to draw the **Radial Gradient Mask**. This way you can easily see where the mask is being applied while you drag in the Viewer, and then see the effect of the image adjustment immediately when you let go as the mask overlay will disappear automatically.

Inverting the Radial Gradient Mask ^{Pro}

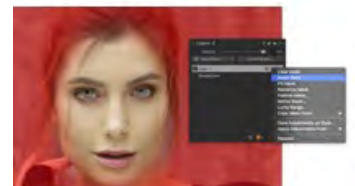
You can invert the **Radial Gradient Mask** which basically flip the mask coverage. It keeps the non-destructive nature, meaning that you can readjust the inverted Radial Gradient Mask by moving it, changing the shape and feathering as well as rotating it.

1. Select the layer with the **Radial Gradient Mask** in the **Layers** tool
2. Right-click and select **Invert Mask** or choose **Layer > Invert Mask**.
3. You can now readjust position, shape, feathering and rotation as you see fit (see above).

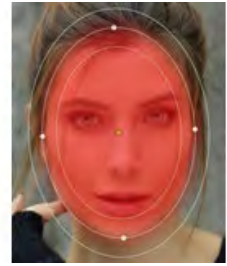
Tip: You can easily change whether the **Radial Gradient Mask** should be filled on the inside or the outside (inverted) by default: Right-click while **Radial Gradient Mask** cursor is active, then remove the checkmark from the **Draw Mask Inside** option if you want to create the mask on the outside as the standard behavior.

Readjusting the Radial Gradient Mask ^{Pro}

If you want to readjust the **Radial Gradient Mask**, ensure that you have selected the correct layer in the **Layers** tool as well as the **Draw Radial Gradient Mask** (T). You can now adjust the size and feathering of the mask by clicking and dragging on the inner or outside line as well as changing the



shape by clicking and dragging on the four control handles on the center line. Finally, you can reposition the entire mask by clicking and dragging anywhere inside the mask that is not covered by the three lines.



1. Go to the **Layers** tool and select the layer with a **Radial Gradient Mask**.
2. Long press the **Draw Mask** icon and select **Draw Radial Gradient Mask** (T) from the drop-down menu, or use the keyboard shortcut T.
3. You can adjust the size and feathering of the mask in two ways: Click on the outside line to adjust the overall size while keeping the inner area (100% adjustment effect) locked. Click on the inner line to adjust the size of the 100% adjustment area while keeping the overall size of the mask locked.
4. Hold down Shift while dragging either the inner or outside line to lock the center line in place and adjust the overall feathering of the mask.
5. Click on either of the **four control handles** on the center line and drag to change the shape of the mask. If you hold down Alt while dragging, you will lock the position of the opposite control handle.
6. Hold down Shift and click on either of the four control handles on the center line to adjust the size of the entire mask.
7. You can rotate the mask by hovering the mouse over the center line (the cursor will change to a rotate icon) and dragging.
8. It is possible to reposition the entire mask by hovering the mouse anywhere over the radial gradient mask that is not covered by the lines. The cursor will change to a move icon and you can drag the mask to a new position.

Useful keyboard shortcuts

- Click on a layer and hold down Command/Ctrl to reposition the mask without the need to have the **Draw Radial Gradient Mask** selected
- Hold down Shift while dragging either the inner or outside line to adjust the overall feathering of the mask.
- Hold down Shift and click on either of the four control handles on the center line to adjust the size of the entire mask.
- Hold down Alt while dragging either of the four control handles on the center line to lock the position of the opposite control handle while changing the shape.
- Hold down Alt + Shift while dragging either of the four control handles on the center line to lock the position of the opposite control handle while changing the size of the mask.

Using Brush on the gradient mask ^{Pro}

If you want to edit the **Radial Gradient Mask** with the brush by either adding or removing areas of the mask, it will need to be rasterized first. This operation basically changes the mask to be pixel-based, meaning that you cannot readjust the gradient after the fact. The resulting mask will then be the same type as if you were using the **Draw Mask** feature from the start.

1. Go to the **Layers** tool and select the layer with a **Radial Gradient Mask**.
2. Long press the **Draw Mask** icon and select **Draw Mask** (B) or **Erase Mask** (E) from the drop-down menu, or use the keyboard shortcuts B or E.
3. Click on the image in the viewer to start editing the mask. Capture One will now alert you that you are about to rasterize the mask. Accept by clicking on **Rasterize**.
4. You can now add or remove areas by painting with the brush, depending on whether you have chosen **Draw Mask** (B) or **Erase Mask** (E).

Note that you can also rasterize the Radial Gradient Mask directly by right-clicking on the layer in question in the **Layers** tool and selecting **Rasterize Mask** or choose **Layer > Rasterize Mask**.



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Luma Range Masking^{Pro}

//

Luma Range is a powerful masking feature that will let you use luminosity values to control which part of the image a Layer-based adjustment should affect.

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- [Creating a Luma Range Mask](#)
- [Refining the Luma Range Mask](#)
- [Erasing parts of the Luma Range Mask](#)
- [Overriding the Luma Range Mask](#)

Introduction

With the Luma Range you can specify that for example only the deep shadows, a midtone range, or the upper highlights should be included in your selected layer adjustments.

Let's take an example. You have created a new filled Layer and increased Clarity and Saturation a lot to boost the image presence. However, you might find that the effect is a too strong in the shadows and highlights. With the Luma Range feature, you can tell Capture One 12 to exclude the shadows and highlights from the adjustment, and only include the midtones.

You control the luminosity range with the black and white **Range** points at the top of the Luma Range graph. The gray area in the graph presents which luminosity values that are **included** in the adjustment, while the black area presents those that are **excluded**.

The two **Falloff** points at the bottom of the Luma Range graph control the transition from full effect to no effect. It is important to have some Falloff to prevent an abrupt transition from the included to the excluded luminosity areas as you can otherwise get artifacts.

See the illustration on the right to get a visual summary over how you should setup the Luma Range to include only the deep shadows, a midtone range, or the upper highlights, respectively.

The possibilities are vast since the Luma Range feature works on all Adjustment Layers. The only thing to remember is that you need to have some kind of mask created on a layer before you will see any effect of the **Luma Range** feature. It works on all types of masks like the non-destructive Linear Gradient Mask and Radial Gradient Mask as well as masks created with the Draw Mask cursor or a mask covering the entire image created with the Fill Mask or New Filled Layer commands.

It is important to point out that the Luma Range works **on top** of a normal mask; only the masked areas will be considered when applying the luminosity range. It is meant as a further refinement, and this is what makes the feature so powerful: You have two ways to control what should be affected in the image; the mask itself and the luminosity range. You can also think of the Luma Range as a way to clip or clamp certain luminosity values.

Another powerful part of the Luma Range feature is the fact that it is non-destructive; you can always go back and readjust it later. You can even copy the Luma Range mask to other images and readjust the luminosity range after the fact on those, setting up a very efficient workflow.



It is also worth to point out that if you readjust how a Linear Gradient Mask or Radial Gradient Mask covers the image, the Luma Range feature will automatically update its influence on the resulting mask. Since these new making features are all non-destructive, you can copy those to other images and readjust the masking after the fact, potentially saving a lot of time.

Creating a Luma Range Mask ^{Pro}

As mentioned, you will need to have some kind of mask on a layer before you will see any effect of the **Luma Range** feature. You can actually create a **Luma Range** on an **Empty Layer**, but you will not see any effect before you apply some sort of mask.

1. Go to the **Layers** tool. Long press the **New Layer** icon and select **New Filled Layer**. Alternatively, Long press the **Mask** icon and select **Draw Mask (B)**, **Draw Linear Gradient Mask (G)** or **Draw Radial Gradient Mask (T)** and create a mask.
2. Click on the **Luma Range...** button in the Layers tool (or select the menu **Layer > Luma Range...**)
3. Enable **Display Mask** to see what parts of the image the Luma Range mask will affect.
4. Set your desired Luma Range by dragging the black and white **Range** points at the top of the graph. Tweak the **Falloff** points to ensure that the transition from the included areas to those that are excluded are not too harsh. A difference of 20 between the Range and Falloff for each is a good start.
5. You can invert the selected Luma Range with the **Invert Range** option. This basically flips the selected luminosity range, so if you have included only the highlights and then enable **Invert Range**, you will in effect exclude the highlights and include everything else. Note that this invert command only affects the masked area, not the whole image.
6. It is possible to tweak the edge coverage of the Luma Mask further with the **Radius** and **Sensitivity** sliders. See below for details on this.
7. Once you're happy with the Luma Range adjustments, click **Apply** to close the dialog box.



Refining the Luma Range Mask ^{Pro}

The Luma Mask can in certain high-contrast circumstances introduce harsh transitions along the edge of the mask. These can be mitigated by tweaking the edge coverage with the **Radius** and **Sensitivity** sliders. Be aware that the two sliders work in conjunction: The **Radius** slider controls (in pixels) how broad an area the edge refinement should work on. The **Sensitivity** slider in turn adds an edge/contrast detection to the Radius value: If you set Sensitivity down to 0, you will just get a simple blur/feathering effect that is seldom useful. As you increase the Sensitivity slider, the edge detection mechanism will modify the feathering by excluding any high contrast areas found. At 100, it will work similar to the Refine Mask action. In most cases, the default value of 50 is the sweet spot, and you can concentrate on adjusting the Radius slider. A value between 0,5 to 1 pixel is a good starting point.

1. Go to the **Layers** tool and select the desired layer.
2. Zoom into the image at 100% to better judge the effect.
3. Click on the **Luma Range...** button in the **Layers** tool (or select the menu **Layer > Luma Range...**)
4. Enable **Display Mask** to see what parts of the image the Luma Range mask will affect.
5. Adjust the edge coverage with the **Radius** and **Sensitivity** sliders.
6. Once you're happy with the adjustments, click **Apply** to close the dialog box.

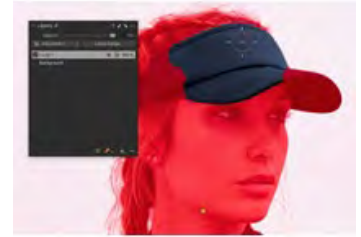
Tip: The default Mask Color Opacity is set to 50% which can make it tricky to fully evaluate how the **Radius** and **Sensitivity** sliders affect the Luma Range when you have the Display Mask option enabled. This can be changed under Preferences and Appearance. Click on Mask Color and ensure that Opacity is set to 100 percent. It can also be a good help to change the color to something



garish, like pink. This will make it easier to see whether the Luma Range does indeed affect the areas you are intending.

Erasing parts of the Luma Range Mask ^{Pro}

If you find that the Luma Range mask covers specific areas that you do not want to include in the adjustment, you can brush those out with the **Erase Mask** (E) cursor. As an example, you might want to affect the exposure of the bride's white dress, but not her white teeth. Note that this particular workflow is meant to be used on a mask created with the **Draw Mask** (B) brush. It doesn't work with **Linear Gradient Mask** or **Radial Gradient Mask** unless you accept to rasterize those.

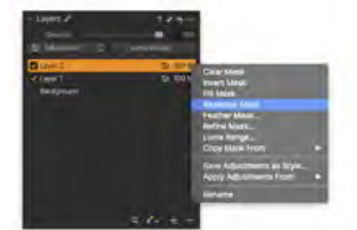


1. Create a **New Empty Layer** and brush over the desired areas with the **Draw Mask** (B) cursor tool.
2. Select the layer in the **Layers** tool and click on the **Luma Range...** button.
3. Enable **Display Mask** to see what parts of the image the Luma Range mask will affect.
4. Set your desired Luma Range with the black and white **Range** points. Tweak the **Falloff** points as needed.
5. Click **Apply** to close the dialog box.
6. Hit the keyboard shortcut M if the Mask overlay is not already showing in the Viewer.
7. Select the **Erase Mask** (keyboard shortcut E) and paint over the areas that you do **not** want to include.
8. If you make a mistake and remove too much from the mask, select the **Draw Mask** (keyboard shortcut B) and paint back over the area to include it.
9. You can also add to the overall mask with Draw Mask but note that the Luma Range feature will **always** exclude the chosen luminosity values. If you have excluded white, you cannot add white areas with the brush. This is by design (see below if you want to override the Luma Range selection).
10. Hit the keyboard shortcut M to toggle the Mask overlay off to review that your image adjustments are made to the desired areas of the image.

The advantage of the above workflow is that you can always readjust the Luma Range in combination with tweaking the mask (by erasing areas or paint them back in).

Overriding the Luma Range Mask ^{Pro}

If you need to include areas of the image that are not currently covered with the mask you should first try to readjust the Range and Falloff points as well as adjusting the **Radius** and **Sensitivity** sliders. If that doesn't get you the desired result, you can change the **Luma Range** mask to be a normal pixel-based mask. You can then paint on it with the Draw Mask (B) or Erase Mask (E) cursor tools to add or remove areas, but note that once you "bake" the **Luma Range** settings into a pixel-based mask, you lose the ability to readjust it after the fact.



1. Select the **Luma Range** mask by right-clicking on the Layer and choose **Rasterize Mask....**
2. Add to the mask area with the Draw Mask (B) cursor tool
3. You can also remove areas with Erase Mask (E) cursor tool
4. Click on the Luma Range... button in the Layers tool to create a new **Luma Range** mask control, if needed.

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Editing and enhancing masks

//

Masks can be edited and enhanced by a number of features like refining the edge of the mask or applying a feather to it.

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- [Filling in a selection](#)
- [Add a feather to the mask edge](#)
- [Refining the mask edge](#)

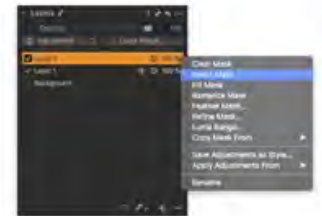
Overview

Inverting a mask

The Invert Mask option is used to create a reverse selection of a mask. This is adopted, typically, when drawing a mask on a small area and reversing the selection to include the rest of the layer is the simpler option. The option can also be used to invert the Display Grayscale Mask so that the edge and the selection may be more clearly seen. The Invert Mask option is always used on a single layer, but it can be used to copy a selection to a second layer.

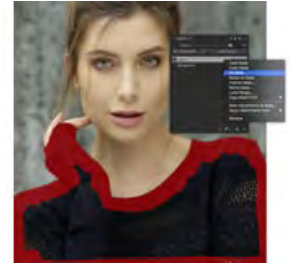
One common technique, favored by fashion photographers working on location, is to make the subject stand out from the background using color to emphasize the distance between them. Although the human visual system can compensate for color differences under a mix of lighting conditions, it is hardwired into our subconscious that distant scenes such as mountain ranges always have a cool-blue look, while features much closer to hand have a warmer-look about them. This effect can easily be accomplished using layers and the Invert Mask option and the local Color Balance tool.

1. Go to the **Layers** tool.
2. Click-on the Create New Layer button (+ icon) in the tool's foot bar to create the first adjustment layer, leave as Layer 1.
3. With the layer selected in the Layers tool (indicated by an orange or silver-colored bar, depending on focus), select the brush tool (B) from the tool's foot bar and draw a mask on the subject that you want to isolate from the background.
4. Verify the accuracy of the mask drawn, toggle **Always display Mask** (M) and tidy-up the mask as necessary. (Use shortcuts to switch between the brush (B) and eraser (E).
5. To add a second mask with a separate adjustment, a new layer must first be created. Repeat step 2, leave as Layer 2.
6. Click-on the Layers Action menu button (... icon), or ctrl/right-click on Layer 2, and select Copy Mask From > Layer 1.
7. Repeat and click-on the Layers Action menu button (... icon), or ctrl/right-click on Layer 2 a second time, and select **Invert Mask**
8. Double click on Layer 1 in the Layers tool to rename it. Add a meaningful name to aid organization, such as *foreground* or *subject*. Repeat for Layer 2 and add a relevant name, such as *background*.
9. Select Layer 1 (*foreground*) and adjust the Color Balance tool, adding a warm color balance setting as desired.
10. Repeat the process with Layer 2 (*background*) using a cooler, blue color balance setting, or a use a suitable preset.



Filling in a selection

The Fill Mask option enables you to quickly fill-in an outline drawn with the brush. It's an ideal aid to your workflow when working with large selections, particularly when there are areas that require intricate brush-work. Simply select the brush, draw around the edge of the area that you want to mask, then use this option to complete the selection. If there are multiple areas on a layer, the Fill Mask command will fill each. If you haven't drawn an outline, the Fill Mask will completely fill a layer with a mask (like the New Filled Layer option), which is useful when brushing away adjustments is the simpler option.



1. From the **Layers** tool, long-press on the Add or Erase Mask button and select the brush using the Draw Mask (B) option. Repeat and select the Always Display Mask (M) option.
2. Carefully draw around the edge of the area that you want to apply the mask to; the outer edge of the brush stroke will form the edge of the mask. Ensure that there is a continuous outline around the area required.
3. Go to the **Layers** tool and click-on the Action menu button (... icon) and select **Fill Mask** from the menu. The selection is filled automatically with a mask.
4. Toggle the mask off using shortcut (M), or select Never Display Mask (M) option from the Layers tool.
5. Apply the desired adjustments to the masked area.

Add a feather to the mask edge

The **Layers** tool offers a feather mask feature, which enables you to expand the width of the mask's transition border after the mask has been drawn. The **Radius** slider determines how broad the blending along the edge of the mask will be and is measured in pixels. It is especially useful when masking elements of images with indistinct edges from high noise levels or low contrast.



In general, start with the default setting, enable the **Display Mask (M)** and set the image magnification to 100%, actual pixels, then gently move the slider to the left for a smaller radius and thinner, more defined and accurate edge, or to the right when working with an uneven edge or a smoother look is required. The tool only affects the mask(s) on the selected layer and doesn't work with offline images. Note that while you can use the Feather Mask feature on any **Radial Gradient Mask** or a **Linear Gradient Mask**, you will be prompted to rasterize the mask once you click Apply. You will be able to see and adjust the feathering effect before you commit, but you cannot readjust the Radial Gradient Mask or the Linear Gradient Mask itself once you have added the feathering. Because of this, it might be a better idea to adjust the feathering directly on those two types of masks by dragging their control lines.

1. Go to the **Layers** tool and right-click on the layer in the list that you would like modify.
2. Select **Feather Mask...** from the list. The **Feather Mask** dialog window will open.
3. Drag the **Radius** slider to the left, beneath **10** (default) to reduce the feathering effect, above to a maximum of 100 to increase. The image will be updated with the effect in the Viewer. Toggle the **Display Mask** option on and off to view and hide the mask overlay.
4. Click **Apply** to confirm the setting or **Cancel** to reject it. If you are working on a **Radial Gradient Mask** or a **Linear Gradient Mask**, you will be prompted to rasterize the mask once you click **Apply**.

Refining the mask edge

The Layers tool offers a refine mask option, which enhances the precision of the mask along the border. When applied, the tool affects all the masks in an individual layer, whether that's one or several. The Refine Mask tool's edge-detecting technology makes it ideal for fixing edges, creating accurate and clean selections of complex elements from backgrounds, such as when



masking hair or fur, or other objects with intricate or fine details. It can also be used to improve brush work along the horizon in landscapes and cityscapes, for example, as well as other elements with high-contrast edges. If the image has high noise levels or has low contrast, the Feather Mask should be used instead.

The **Refine Mask** tool should be used at the end of the workflow. However, it is typically an iterative process, and some tidying of the mask edge may be necessary using the eraser brush (E) before reapplying the Refine Mask command. Adjusting the Radius slider or text box alters the width or radius of the edge of the mask in pixels (px), with a range of 0-300 and a default of 10px. However, the tool will recall the previous set value. In general, start with the default setting, enable the Display Mask (M) or Display Grayscale Mask (Alt-M), then gently move the slider to the left for a smaller radius and harder, sharper edge, or to the right when haloing or other unwanted artifacts are observed and a slightly softer edge is required, with wispy hair, for example. The tool doesn't work with offline images.

Note that while you can use the **Refine Mask** feature on any **Radial Gradient Mask** or a **Linear Gradient Mask**, you will be prompted to rasterize the mask once you click Apply. You will be able to see and adjust the refine edge effect before you commit, but you cannot readjust the **Radial Gradient Mask** or the **Linear Gradient Mask** itself once you have added the feathering.

1. Go to the **Layers** tool and right-click on the layer in the list that you would like modify.
2. Select **Refine Mask...** from the list. The **Refine Mask** dialog window opens.
3. Drag the **Radius** slider to the left, beneath 10 (default) to improve the quality for hard, clean edges, or above to the right to a maximum of 300px for softer edge transitions when masking fine detail such as hair. The image will be updated with the effect in the Viewer. Toggle the **Display Mask** option on and off to view and hide the mask overlay.
4. Click **Apply** to confirm the setting or **Cancel** to reject it. If you are working on a Radial Gradient Mask or a Linear Gradient Mask, you will be prompted to rasterize the mask once you click Apply.

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Color Range Mask

COLOR EDITOR //

Capture One enables you to create a mask from a color range using the Color Editor tool.

- Working with a color range selection
- Creating a mask from a color range
- Creating masks from a color range for multiple images

Working with a color range selection

Capture One enables you to create a mask by a color range using the Color Editor tool. This option works well for a broad range of selection tasks, from subjects with difficult to brush edges to those with clearly defined colors. Note, however, while a color range helps to target the selection for the creation of the mask, its success also depends on what kind of adjustment is to be applied. For example, a negative clarity adjustment used to smooth skin-tones doesn't require a precise mask, whereas an exposure adjustment typically requires a more targeted selection. Therefore, this selection option works well when a localized contrast adjustment is required using the combined RGB or Luma Curve tool.



When modification of the color range is required, either the **Advanced** or **Skin Tone** options can be used by adjusting the wire-frame to in the color wheel to either expand the range or restrict it. With multiple color range selections made using the Advanced option, only the highlighted selection is used to create a separate layer and mask. However, for even greater control, each one can be used to make an additional layer each with their own mask, and like any selection mask in Capture One, each one can still be tidied up using the erase brush (E).

Creating a mask from a color range

Capture One enables you to create a mask quickly from a color range selection using the Color Editor tool.

1. Go to the **Color Editor** tool and select the color or area intended for local adjustment on the image using the Color Editor tool's color picker (pipette icon).
2. When modification of the range is required, use the color picker from the **Advanced** or **Skin Tone** options or cursor group and adjust the wire-frame to suit. When multiple selections are made using the Advanced option, only the highlighted selection is used for the mask. However it is possible to make a mask for each selection. To display the selected color range in the Viewer, enable the **View selected color range** option.
3. With the color selection highlighted in the Color Editor, click on the the Color Editor tool's Action menu button (... icon), and select **Create Masked Layer from Selection**. A dialog opens showing the progress of the creation of the mask.
4. A new separate adjustment layer is created in the **Layers** tool, complete with a corresponding mask for that color selection.
5. Tidy up areas not needed using the erase brush (E).
6. The mask can now be used to apply adjustments.



Creating masks from a color range for multiple images

The Color Editor tool's ability to automatically create a mask from a color-based selection can also be used for multiple images. This is particularly useful for batch editing of an identical subject, providing, of course, the same selection is required for masking and subsequent adjustment. The following instructions assume that the Edit All Selected Variants option is selected (if not, click on the multiple thumbnail icon in the Tool-bar turning the icon to orange). Individual images may require tidying up using the erase brush (E).



1. Select a variant group, or a series of similar images captured in a single session from the Browser.
2. Go to the **Color Editor** tool and select the color or area intended for local adjustment on the **primary variant** using the Color Editor tool's color picker (pipette icon). When greater precision is required use the color picker from the Advanced or Skin Tone options or cursor group.
3. To display the selected color range in the Viewer, enable the **View selected color range** option.
4. With the color selection highlighted in the Color Editor, click on the the Color Editor tool's Action menu button (... icon), and select Create Masked Layer from Selection. A dialog opens showing the progress of the creation of the mask.
5. A new separate adjustment layer is created in the **Layers** tool for each image variant, complete with a corresponding mask for that color selection.
6. The masks can now be used to apply adjustments to them.

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Working with Styles and Presets in Layers

//

Capture One's Layer's tool allows you to apply Styles and Presets selectively to your images. You can also save adjustments as a Preset and apply those to batches of images.

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- [Applying Style to a new Layer](#)
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Overview

Capture One allows the application of certain built-in and user-customizable Styles and Presets to layers, thereby allowing you to apply groups of adjustments as a specific look or personalized style to selective areas of an image. Styles and Presets can be applied either from the Layers tool after creating a layer, or directly from the Styles and Presets panel, where they can be applied to the background, the selected layer, or a new layer. Not only does this help speed up your workflow, especially if you are working with multiple layers, this new option for Styles and Presets provides a more streamlined workflow. Presets can also be applied to a layer from the tool's manage preset menu.



Capture One enables you to apply a Style or Preset in different ways, such as to a gradient, or to the image as a whole as an offset, or you can brush it in. Brushing is arguably the most versatile option. The application of a group of adjustments (i.e. a Built-in Style) or a customized group (i.e., a User Style) this way enables you to adopt the brush's flow control option so you can build-up the effect gradually, in steps. You can even fade the amount applied on each layer retrospectively using the Master Opacity slider - there's no more guesswork and no more painstaking reapplication of individual adjustments.

There are some restrictions in the way the Styles and Presets can be used, however. When working with the dedicated Styles and Presets panel, they can only be applied from there using the tool's context menu (ctrl/right-click). If you prefer to brush-in adjustments, you can do so after creating a layer and brushing-in a small area first, allowing you to see the effect on the image as you brush over the rest.

Styles can't be stacked on the same layer (you must use a new layer for each, where the effects are additive) and where certain settings aren't compatible they're disabled, such as those relating to certain features including the crop, keystone correction tools, and the application of metadata. When certain settings are disabled, the Style or Preset may still be applied partially. A dialog will open to advise you.

Applying with a brush or a gradient

When working with Styles and Presets on layers in Capture One they are

applied to the layer, which enables you to work with them in a number of ways. When you want to apply a Style or Preset to the whole image, for example, as a color grade to compare with another Style or a normalized adjustment on a layer or background, you should select a new filled layer and apply it to that.

When you want to apply the Style or Preset selectively you can apply it to an empty layer, then brush the adjustments in or apply them to gradient. When used this way, you can view effect in the Viewer as you make the selection (remember to turn the mask off (M) or enable only show mask when drawing). If you're unsure of the Style to use, make a small selection first and scroll over the list to preview the effect.

More than one Preset can be applied to a layer and a Preset can be applied to a layer with a Style (i.e., they can be stacked). However, only one Style can be applied to a layer at a time, and those adjustments will be in addition to any already applied to the layer, if there are any. If you want to apply a second Style, create another layer and repeat the steps detailed below. Note Styles or Presets that include adjustments that can't be applied will appear grayed-out in the list.

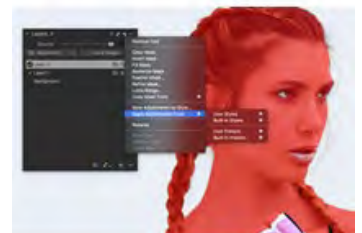
1. Select an image in the Browser.
2. Go to the **Layers** tool or Viewer's tool bar, and click on the New Layer button (+ icon) and select the following:
 - o **New Empty Layer** - Use this when you want to make a selection using the brush or gradient. A new empty adjustment layer is created. Ensure the layer is selected from the list, if not already.
 - o **New Filled Layer** - Select this option to apply the Style or Preset to the whole image (e.g., when you want to apply a color grade to a layer or an offset using Levels or the Curve tool).
3. From the **Layers** tool's title bar, select the Action menu button (... icon) or ctrl/right-click on the Layer in the stack. The Action menu opens.
4. Select **Apply Settings From** > User Styles / Built-in Styles / User Presets / Built-in Presets, and select the appropriate option. The effect will be applied to the New Filled Layer in the image, or if you selected a New Empty Layer, start brushing or add a gradient. Make a small selection first to preview the effect of the Style.
5. If you want to apply a different Style or Preset, return to step 4 and select another from the list. The image will be updated as you hover the cursor over the choices in the list. Click on the option in that list to apply the Style's settings to the selection.



Brushing in directly

Like most other adjustments, the combination of settings from the Styles and Presets library in the Layers tool can be brushed in. The recommended workflow is to first create a new empty layer from within the Layers tool, then brush in a small selection. With a small selection in place, select the Style or Preset from within the Layers tool, so that you can see the effect, and then continue with brushing-in the selection. Note that, while it's useful to see the effect being applied using the brush, this technique may not be suitable for all images, particularly where edge selection is critical. If you've not used all the available layers, it is recommended to keep the layer dedicated to the chosen Style (or Preset), and thus free of other adjustments.

1. Select an image in the Browser.
2. Go to the Layers tool or Viewer's tool bar, click on the Create New Layer button (+ icon) and select **New Empty Layer**. A new Adjustment Layer is created. Ensure the relevant layer is selected from the list.
3. From the foot-bar in the Layers tool click on the Add/Erase Mask button and select the brush cursor **Draw Mask** (B).
4. Repeat and select **Never Display Mask** (M) from the menu. Note this option can be toggled on or off, using the shortcut (M).
5. Modify the brush as required, and brush-in a small selection on the image.
6. From the **Layers** tool's title bar, select the Action menu button (... icon) or ctrl/right-click on the Layer in the stack. The Action menu opens.
7. Select **Apply Settings From**> User Styles / Built-in Styles / User Presets /



- Built-in Presets and select the style or preset as desired.
- Return to the initial selection and continue to brush-in the effect. The image will be updated in the Viewer as you apply the selection.
 - If you want to apply a different Style or Preset, return to step 6 and select another from the list. The image will be updated as you hover the cursor over the different choices in the list. Click on the option to apply the new settings to the selection.

Applying Style to a new Layer^{Pro}

Capture One enables you to apply a Style or Preset to a new, created filled layer. This is done from the Style and Presets panel the layer is automatically named with the chosen Style or Preset, when the Apply to New Layer (i.e., a new filled layer) option is chosen.

Note although certain Presets can be stacked, you cannot add more than one Style to the same layer. When you want to apply more than one, create a new layer and apply the Style to that instead. Like working with any layer, the adjustments made to each are additive, including any made to the background layer.

- Select an image in the Browser.
- Go to the Adjustments Tool Tab.
- From the **Styles and Presets** panel, unfold the Styles and Presets from the collections and scroll over those in the list. The effects of each will be displayed in the viewer. (Do not select a Style at this time, otherwise it will be automatically applied to the background as normal.)
- Highlight the chosen Style or Preset from the list, then select ctrl/right-click. The context menu opens, select **Apply to New Layer** - Choosing this option creates a new filled layer and applies the adjustments to it. The layer is given the name of the applied Style or Preset. If this option is grayed-out, then the settings for this Style cannot be applied to a layer.
- If desired, repeat to add layers with different Styles (e.g., if you selected the background to apply a normalization correction).

Note that you also have these options:

- **Apply to Background** - Adjustments are applied to the image as normal (i.e., on the background layer)
- **Apply to Selected Layer** - If you've already created (and selected) a layer in the Layers tool, the adjustments will be applied to the layer itself. If the layer is empty (i.e., without a mask), use this option to apply a gradient mask or brush-in the adjustments.

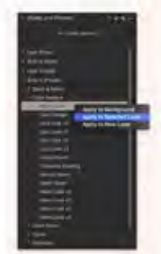


Applying Style to a selected Layer

Capture One enables you to apply a Style or Preset to a selected layer and its mask. This is done from the Style and Presets panel and enables you to choose the effect first before deciding on whether it should be applied to the background, selected layer or a new filled layer.

Note although certain Presets can be stacked, you cannot add more than one Style to the same layer. When you want to apply more than one, create a new layer and apply the Style to that instead. Like working with any layer, the adjustments made to each are additive, including any made to the background layer.

- Select an image in the Browser and select the desired layer in the **Layers** tool.
- Go to the Adjustments Tool Tab.
- From the **Styles and Presets** panel, unfold the Styles and Presets from the collections and scroll over those in the list. The effects of each will be displayed in the viewer. (Do not select a Style at this time, otherwise it will be automatically applied to the background as normal.)
- Highlight the chosen Style or Preset from the list, then select ctrl/right-click. The context menu opens, select **Apply to Selected Layer** and the adjustments will be applied to the selected layer. If the layer is empty (i.e., without a mask), use this option to apply a gradient mask or brush-in the adjustments.
- If desired, repeat to add layers with different Styles (e.g., if you selected the



background to apply a normalization correction).

Note that you will also have these two options:

Apply to Background - Adjustments are applied to the image as normal (i.e., on the background layer)

Apply to New Layer - Choosing this option creates a new filled layer and applies the adjustments to it. The layer is given the name of the applied Style or Preset. If this option is grayed-out, then the settings for this Style cannot be applied to a layer

Applying to batches

You can apply Styles or Presets to layers in batches of images by either adding a new Style or Preset to a New Layer (e.g., a new filled layer to apply the effect to the whole image) in each or, if Capture One detects existing adjustments layers in the selected images, apply the Style or Preset to the topmost layer in the stack. The topmost option is particularly useful when you've created a masked layer from a color selected using the Color Editor. If a mask is detected on the topmost layer, Capture One will apply the adjustments to the mask. If a Style was used on that layer, it will be replaced with the new one.

1. Select all of the images in the Browser that you want to apply a Style or Preset on a layer to.
2. Ensure **Edit All Selected Variants** is enabled from the Edit menu or toolbar.
3. Go to the Layers tool, click on the New Layer button (+ icon) and select from the **New Filled Layer** from the list. A new filled layer is created for the primary variant.
4. Ctrl/right-click on the layer bar in the primary variant or select the action button (... icon) in the title bar and select **Apply Settings From** > User Styles / Built-in Styles / User Presets / Built-in Presets and scroll over the list to preview the effect on the primary variant in the Viewer.
5. Select the Style or Preset from the menu, adding a check-mark. A dialog box opens asking if you would like to create a **New Layer** in each and apply the Style or Preset or, if there are any layers detected, apply it to the **Topmost** layer in the selected variants.
6. The Style will be applied to the new layer in the primary variant and will be applied to the others in the batch according to your choice in step 5.



Copying between images

You can copy a Style or Preset on a layer between images. If there's more than one layer on the primary variant they will all be copied and applied to the selected variants.

1. Select the image and apply a Style or Preset to a layer, either using the Layers tool or Style and Presets panel.
2. Select the image you want to apply the new layer complete with the Style or Preset to. Ensure the **Edit Selected Variants** option is enabled from the Edit menu or from the toolbar.
3. Click on the Copy and Apply button (double-headed arrow icon) in the header bar. Alternatively, choose from the Adjustments menu, main toolbar, or Adjustments Clipboard, select **Copy Adjustments**, or **Copy**, respectively.
4. From the option chosen above in step 3, select **Apply Adjustments**, or **Apply**, respectively. The layer or layers if more than one will be copied with the adjustments to the selected variants.



Save settings as a Style

If you regularly use a combination of adjustment settings, or if there's a Style that you modify in the same way regularly, the Layer's tool can be used to save these additional settings as a separate User Style.

1. Create a mask using the brush (B), gradient (G), or color selection, and apply the necessary adjustments.



2. From the **Layers** tool, select the Action button menu (... icon) in the title bar or ctrl/right-click on the Layer in the stack. The Action menu opens.
3. Select **Save Settings as Style** from the menu.
4. The Save Style Adjustments Clipboard dialog window opens.
5. Select the parameters you want saved by adding a checkmark to each and select **Save** to create the Style, or Cancel to close the dialog and continue working.
6. If Save was selected, a system dialog opens.
7. Give the Style a meaningful name in the **Save As** field, then select **Save**, or Cancel to close the dialog and continue working.

Organize Styles

To keep User Styles organized, you can save Styles in a folder as they're created. This is useful if you have a progressively expanding library of styles and want to group similar combinations of settings together. The folder will be display separately in the Layer's tool Action menu > Apply Settings From > User Styles > [Folder Name].

1. Follow the steps 1 through 6 in Saving settings as a Style (above).
2. Give the Style a meaningful name in the **Save As** field of the system dialog window.
3. Select **New Folder** and type a meaningful name for a collection.
4. Select **Save**, or Cancel to close the dialog and continue working.



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Repairing Images

The Layers tool in Capture One Pro has individual brush-based Heal and Clone tools for localized repairing of images.

- Repair layers
- Repairing with the heal tool
- Repairing with the clone tool
- Setting a new source point
- Adjusting target area
- Viewing the before and after effect quickly
- Switching from local to global adjustments

Repair layers

In addition to the standard Adjustment Layer option, Capture One Pro has two Repair Layer options: Clone and Heal. Each of these two layers have dedicated brush-based local Clone and Heal repair tools. Both look similar initially, however there are some subtle yet important differences between the way the two work.

The Clone tool copies pixels from one area of an image to another and is well suited to either duplicating or removing objects. Brushing over an imperfection in an image using the Clone brush will replace that area with an exact copy of another part of the image.

The Heal tool works slightly differently. It also copies pixels but automatically blends the colors and brightness of the sampled area with the adjacent pixels of the target area. For most repair work, particularly skin blemishes or large expanses of sky with a slight gradient, the Heal tool should be the first choice. Repairs along edges are more suited to the Clone tool.



Repairing with the heal tool

Although Capture One has a separate Spot removal tool using a circular cursor for the quick removal of small spots and sensor dust, the brush-based Heal tool should be adopted when more complex and precise repairing of imperfections is required, especially over a large area. Retouching spots or blemishes in areas with high-noise or fine-structure detail using the Heal tool should be confined to repairing smaller areas using a layer for each for best results. Adopting more than one area for repair may still be possible, however, depending on the image and suitability of the source point or sampling area. Only one sampling point can be set per layer, though, up to 16 layers can be created for one image.

To start with, it is recommended to adjust the brush size to just cover the area to be repaired and set a low hardness value (0-20). This aids the blending of pixels for color and brightness, and is useful when retouching areas with complex detail and shadows such as a facial mole under strands of hair, for example. Set both Flow and Opacity to 100%. The master Opacity slider may be used to reduce or fade the effect afterwards. Where hard, straight edges are encountered in an image area that needs to be repaired or restored, the Heal tool is likely to blur, therefore the Clone tool may be the better option.



1. Go to the **Layers** tool or Viewer's tool bar and either:
 - o long-click on the Create New Layer button (+ icon) on the foot-bar and select the **New Heal Layer** option from the menu.

- Click on the Create New Layer button (+ icon) to create a new layer, then ctrl/right-click and select the **New Heal Layer** option from the menu.
 2. From the foot-bar in the Layers tool click on the Add/Erase Mask button and select the brush cursor **Draw Mask** (B).
 3. Modify the brush parameters, as required.
 4. Zoom in to 100% and brush or click-on the spot or blemish to be removed.
 5. If the appearance of the target area doesn't match the surrounding pixels, click on the source point (black and white circular cursor) at the sampling area and drag it, or option/alt-click (Mac/Windows) on the image, whilst observing the effect. The source point can be moved anywhere within the same image in the Viewer.
 6. The target area is updated and immediately repaired.

Repairing with the clone tool

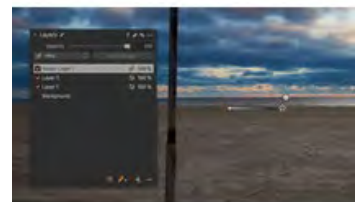
The Clone tool lets you repair an area in an image by covering them with pixels from another part of the same image. Besides repair it can also be used to duplicate objects should the need arise. Although Capture One selects a sample area, when replacing a target area with cloned data, it is expected that in the majority of cases manual selection of the sampled area or source point is required. Setting a low hardness value for the brush prior to application lowers the blend opacity of the selection or target area and is useful when merging cloned pixels at the edges in areas that are moderately to highly regular, such as skin or expanses of blue skies.

1. Go to the Layers tool and either:
 - Long-click on the Create New Layer button (+ icon) on the foot-bar and select the **New Clone Layer** option from the menu.
 - Click on the Create New Layer button (+ icon) to create a new layer, then ctrl/right-click and select the **New Clone Layer** option from the menu.
2. From the foot-bar in the Layers tool click on the Add/Erase Mask button and select the brush cursor **Draw Mask** (B) from the menu.
3. Modify the brush parameters, as necessary.
4. Zoom in to 100% and either brush on the area to be repaired. Capture One selects a sample area and replaces the target area with the sampled pixels.
5. If the appearance of the target area doesn't match the surrounding pixels, click on the source point denoting the sampling area and drag it while observing the effect on the image. The source point can be moved anywhere within the same image.
6. Alternatively, option/alt-click (Mac/Windows) on the source point to set a new sampling point. The target pixels will be updated immediately. Only one sampling point can be set per layer.

Setting a new source point

Capture One automatically selects the sampling area or source point based on the texture of the pixels, and the area chosen may look very different from the target area or destination point. If the automatic selection of the source point needs to be changed, you can easily re-position it anywhere in the same image. Only one source point can be selected regardless of the number of individual repair areas there are on the layer, however, that one source point may still be suitable depending on the image and the type of repair. For complex retouching of images involving several areas, it's recommended to create a separate layer for each. As many as 16-layers can be created for any one image or variant, and that can comprise of a mixture of adjustment and repair layers.

1. Click on the relevant repair layer in the **Layers** tool to select it. The layer will be highlighted as an orange bar initially, then when focus is moved elsewhere it will change to silver-gray. Both the destination point (orange and black circular cursor) and source point (black and white circular cursor) will be displayed in the Viewer.

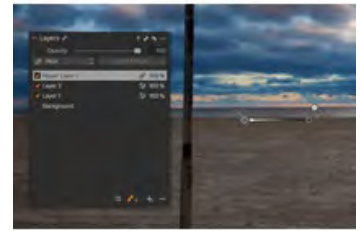


2. Zoom to 100%. To set a new source point, option/alt-click in an area you think will be suitable, or click and drag the source point to another position while observing the updated effect in the viewer.
3. The Layers tool saves the new source point.

Adjusting target area

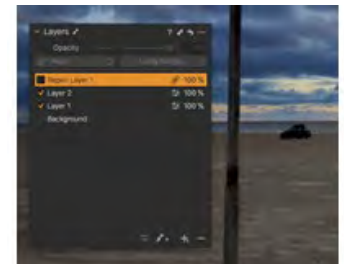
In addition to repositioning the source point to resample the current selection, you can also reposition the target area or destination point. Moving the destination point only a little can greatly improve the result. Adjusting the destination point repositions the mask used on the repair area, which in-turn simultaneously updates the sampling area.

1. Click on the relevant repair layer in the **Layers** tool to select it. The Layer bar will be highlighted in orange initially, then silver once focus has moved. Both the destination point (orange and black circular cursor) and source point (black and white circular cursor) will be displayed in the Viewer.
2. Zoom to 100% for a clearer view of the repair area. To set a new destination point, click and drag the orange and black circular cursor slightly while observing the updated effect in the viewer.
3. The Layers tool saves the new destination point.



Viewing the before and after effect quickly

1. Click on the relevant repair layer in the Layers tool to select it.
2. To view the "before and after" effect quickly, toggle the check mark in the layer's name bar to enable and then disable. The Background Layer cannot be disabled.
3. To make any global adjustments to the image thereafter, remember to select the Background in the Layers tool or from the Viewer's tool bar.



Switching from local to global adjustments

When either the Clone or Heal layer option is selected, some of the cursor tools remain enabled such as the Loupe and Crop tool, however, all the adjustment tools are disabled.

1. To return to making localized adjustments after working with a repair layer, click on an existing adjustment layer or create a new one.
2. To switch between localized and global adjustments, select the Background in the Layers tool or from the Viewers tool bar.



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Annotating Images^{Pro}

Capture One Pro allows you to superimpose line drawings or sketches on images using the Annotations tool. It is intended as a visual aid when suggesting ideas for retouching.

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Overview

Capture One Pro features an Annotations tool. It consists of a simple brush or pen-type tool to make line drawings or sketches as a visual aid for retouchers. It also has a slider to modify the size or thickness, a user selectable color palette, and a simple erase option. Along with dedicated cursor tools accessible from the cursor tool bar the Annotation tool is located under the Metadata inspector, though like all the other tools it can be added to any of the inspectors.

If you're using an interactive stylus it can be used to scribble notes and if you're using a Windows machine with a touch compatible display, you can use a pen to annotate and your fingers to pan or zoom, separately. Like the brush tool when drawing a mask, the annotations cursor can be used to draw a straight-line between two points, simply click in the image then shift-click a second time to draw a line between them.

Annotations cannot be copied between images by default, you must actively add the option to the adjustments clipboard first. Nor can they be included as part of a Style.

Like EXIF and IPTC metadata embedded in or associated with an image, using the global reset feature will not remove the annotations, however using the tool's (local) reset feature will do so. When you want to keep them for future reference, there's no need to make clones and delete the annotations. Instead, the tool's steganographic capabilities means you can quickly conceal them from view.

When you want to quickly check an image for annotations, a status (pencil) icon is applied to the corresponding thumbnail in the browser and a dedicated shortcut to toggle the display of any annotations made to images is available to customize the toolbar. You can also search for annotated images using the Filters tool, and they can be grouped into an album using the search-based Smart Album feature.

Moving annotated images from one computer to another for additional editing is easy. RAW based annotated image variants can be packaged as EIP files, greatly simplifying the collaboration process between the photographer, digital



tech, and the retoucher.

When the time comes to share the files with the production team, for example, annotations can be included in the image as a layer when processed as a PSD file. If you want to check annotated images before sharing them, annotations can be included when the Proof Recipe feature is selected (note the display of annotations is not dependent on the recipe workflow option but on the separate Always Display Annotations feature) and they can be included when printing a hard-proof. (If the annotations are visible when sending the image to print (i.e., selecting file > print) then the annotations will be included, though you can always remove them retrospectively from the Image Settings panel in the Print dialog before printing.

Note for Express users

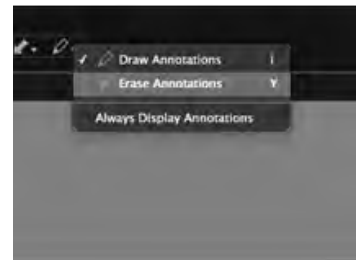
Capture One Express (for Sony) doesn't feature the Annotations tool, nor can it print images with them. However, the Filters feature includes the option to search for them by annotated state (yes/no), and it enables annotations to be both viewed and hidden on-screen, if you have imported previously annotated images (from Capture One Pro).



Shortcuts

The Annotations tool has a number of useful keyboard shortcuts:

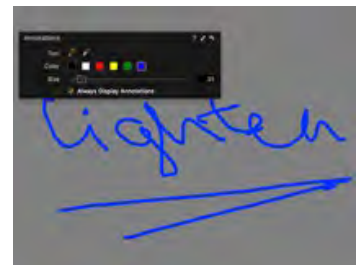
- I = annotation pen
- Y = eraser
- J = Show/hide toggle (when using other cursors)



Sketching on images

With the Annotations tool you can add a quick sketch or scribble a few notes using an interactive pen. Any annotations made previously will be visible when the Annotations brush or eraser is selected, even if the Always Show Annotations option in the tool or Cursor Group menu is disabled.

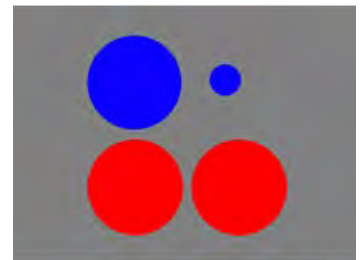
1. Go to the **Annotations** tool in the Metadata inspector or Cursor tool bar (far right) and select the **Annotations Brush**.
2. Select the color from the swatch available in the tool. If you've selected the brush from the cursor group, Ctrl/right-click in the viewer to open the tool beneath the brush and select from there.
3. Select the brush size using the slider, or click on the adjacent box and add a value (in pixels) directly, or adjust using the keyboard up/down arrows or shift+ up/down arrows.
4. Draw directly on the image in the viewer.
5. The annotations made are saved automatically.



Adjusting the cursor size

The Annotations Pencil cursor has a single slider to adjust the size of the stroke. This is defined relative to the native pixel dimensions of the image file. The cursor size automatically adjusts to the Viewer magnification when drawn, and is useful when working on images with the same image dimensions (e.g., when working images from one camera model, or models with the same resolution sensors), or when switching between displays with different resolutions when using the second Viewer option, available from the Window menu.

1. Go to the **Annotations** tool, or use shortcut (I).
2. Adjust slider to alter cursor stroke width, or click on the text box and enter a value or adjust using the up/down arrow keys.



Copying between images

Annotations made to an image can be copied to others but this isn't possible by default using the global copy command, so for example when copying adjustments they're not included. To enable the copying for a one-off action, the Annotations option must be actively selected from the Adjustments Clipboard, like it is when copying the orientation of an image. Note annotations aren't additive, and so will be overwritten if copied to another already annotated image.

There are several methods you can use. The quickest if applying to multiple images (and the Edit Selected Variants option is already enabled) is to use the local Copy and Apply command. If you haven't decided on the image or images to apply the annotations to (i.e., they're not already selected or they are but the Edit Selected Variants option isn't yet enabled) then a combination of local and global copy and apply commands must be used.

1. Add the annotation to an image.
2. From the Annotations tool press the local Copy and Apply button (double-headed arrow icon) in the title bar and choose from the following:
 - **Copy** - choose this to copy to the clipboard when you haven't yet selected the image or images you want to apply the annotations to (i.e., if the Edit Selected Variants option is not already enabled). The annotations are copied to the clipboard (this includes both the local clipboard and global adjustments clipboard).
 - **Apply** - to copy and apply to one or more images if the Edit Selected Variants option is already enabled. The annotations are copied to the selected images.
3. If you selected **Copy** in step 2, select the image or images (when applying to multiple images, enable the Edit Selected Variants option) and press the **Apply** button in the main toolbar (downward slanting arrow icon), or the **Apply** button in the **Adjustments Clipboard**.
4. The annotations are applied to the selected image or images.



Displaying annotations

To verify any annotations have been applied to images when using cursors other than those used by the Annotations tool, please ensure the Always Show Annotations option is enabled, otherwise none of the modifications will be visible.

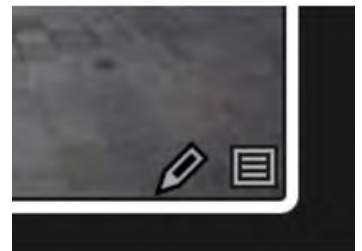
1. Go to the **Annotations** tool in the Metadata inspector, or Cursor tool bar (far right), and select **Always Show Annotations** from the menu (a small checkmark will be visible when enabled).



Hiding annotations from view

Sketches made with the Annotations tool can be hidden from view, making it simple to add annotations to images without having to make copies or clones to remove them. Note when using the Annotations cursors, the annotations are displayed regardless of the setting. Thumbnails in the browser are not updated with annotations when applied. However, as an indicator, a small pencil icon with a line drawing is visible in the bottom right corner of thumbnails.

1. Go to the Annotations tool. Alternatively, go to the cursor group in the Cursor tool bar (far right) and click and hold. The Cursor group opens.
2. Remove checkmark next to **Always Show Annotations** to disable the display of the annotations. Note when the Draw or Erase Annotations cursors are selected, any annotations made will be displayed regardless. Only when selecting another, un-related cursor, will the sketches be hidden from all images.
3. To view the annotations again, replace the checkmark.



Searching for annotated images

Capture One's Filters tool includes the option to search for annotated images by their annotated state (i.e., yes or no). To enable the search of the

item from the Filters tool, it must first be added to the list of filters. Alternatively, the item may be searched for using the Advanced Search tool, from the Search Criteria menu, as Annotated is true or false. The following describes how to add the item to the Filters list, if not already included. The method can be adopted for any item.

1. Go to the Library inspector.
2. From the Filters tool, click on the Action button (... icon). The Action menu opens.
3. From the menu, click on Show/Hide Filters... The Show/Hide Metadata Filters clipboard opens.
4. Add a checkmark to enable the Annotated filter option. The item is added to the Filters tool. (Note that the Annotated Filter is included when the Basic Filters group is enabled.)
5. To search for annotated images, first select the Browser session from the Library tool (e.g. All Images in a Catalog, or Capture Folder in a Session), and then return to the Filters tool and, under Annotated, click Yes. All those images in the Browser session that are annotated will be displayed in the Browser.



Erasing annotations

The annotation eraser has a simple undo function. You can simply select the eraser and undo mistakes by clicking on them individually. If you have a number of annotations to remove, simply click and hold-down the pointing device (e.g., mouse), or keep an interactive pen nib in contact with the graphics tablet's surface, and steadily draw a line through them. Alternatively, when you want to remove them all simultaneously, click on the tool's local reset button (curved-arrow icon).

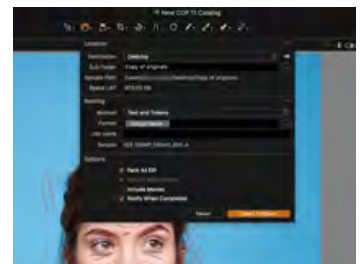
1. Go to the **Annotations** tool in the **Library** inspector or Cursor tool bar (right-hand side) and select the **Eraser** from the options or menu, respectively.
2. Click on the scribbles or sketches; each one will be removed in turn. There's no need to brush them away, as you would with the Layers tool.
3. To remove all annotations simultaneously from an image, click on the local reset (curved-arrow icon) in the tool's title bar.



Sharing between Capture One users

When you want to collaborate with others using Capture One the simplest way to share RAW files with annotations (and any other adjustment made so far) is to export the image as an EIP file. An EIP is a RAW file packed with all the adjustments and profiles in one self-contained file. An EIP does away with need to find and add the relevant metadata sidecar file for each RAW file. Find out more in the section on [EIP files](#).

1. Select the image or images you want to export with annotations in the browser and either ctrl/right-click and select **Export > Originals...** from the contextual menu, or select File > Export Images > Originals... The Export dialog window opens.
2. From the **Location** panel, go to the **Destination** fly-out menu and select a location for export, such as the Pictures folder or Desktop.
3. Add an enclosing folder, go to the **Sub Folder** field and add a folder name or select a token (tokens will automatically create names from metadata in the database).
4. Rename files from the **Naming** panel. If you want to use the original file names, leave the default Image Name token in the Format field, or rename using appropriate use of text and tokens, or the find and replace option.
5. From the **Options** panel, select/enable **Pack As EIP**. The selected RAW images will be packed as EIP files and exported. (Remind collaborators when sharing to import with the adjustments option enabled).

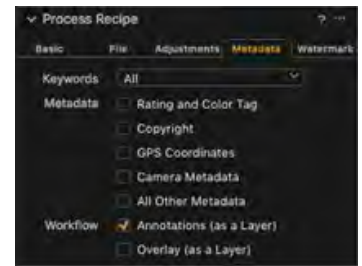


Processing images with annotations

When preparing variants for output, any annotations made can be rendered with the image during processing, which is useful if a quick proof is required. You can also include annotations as a separate layer when processing the image to a PSD. This enables the annotations to be kept separate from the image as an individual object in a layer, yet allow collaborators to view and remove the annotations when the file is ready to be printed or published, for example.

Note the following steps detail the method using a Process Recipe from the Output inspector. If there's no additional need for including a watermark as a layer, the simpler Recipe option available using the Export Variants command (File > Export Images > Variants) can be used instead.

1. Go to the Output inspector and either create a new dedicated recipe or select an appropriate recipe from the Process Recipes list. The recipe is then highlighted in orange. (Note that when multiple recipes are to be selected for processing, the following selection will have to be made for each recipe in-turn).
2. From the **Process Recipe** panel (located under the Process Recipes list), select the **Metadata** tab.
3. Under **Workflow**, choose from the following options:
 - To exclude the retouch notes from processed images, deselect the Annotations check-box.
 - To render as part of the image, select the Annotations check-box (all image formats, other than PSD).
 - To render as a separate layer, select the Annotations check-box and choose **PSD** as the file format, from the **Basic** tab.
4. Selecting the option will automatically save the choice to the recipe.
5. Select **Process** in the Process Summary (or from the Browser's contextual menu, ctrl/right-click > Process). The image is processed accordingly.



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Editing in other Applications

OUTPUT / PROCESS IMAGES / TIF / JPEG

Editing images in third-party software, such as Adobe Photoshop or Helicon Focus, is available using the Edit With... and Open With... commands.

- Using an External Editor
- Using Plugins
- Making image adjustments with an external editor
- Opening images in an external editor

Using an External Editor

When you need to make highly-specific image modifications, such as advanced retouching, stitching or stacking, you can select an external editor or a standalone plug-in for Capture One to use. The external editor must be selected first to allow Capture One to copy and convert RAW files and apply any adjustments that you've made, using the Edit With... command. Modified images are imported back into Capture One alongside the original image where additional adjustments can be made if necessary.

Although similar to the Edit With... command, the Open With... option in Capture One allows you to open previously processed files (PSD, TIFF or JPEGs) with an external editor. You can also use it to open movie files in a relevant application. This is especially convenient if you have imported a mix of stills and movie clips from a video-enabled DSLR. The Open With... option can also be used to send RAW files to an external editor. Note however, this option is intended primarily to allow additional image modifications to previously processed files. Sending the original RAW source files to an external editor bypasses the file-copying, and subsequent RAW conversion and processing in Capture One. Therefore, please ensure the external application fully supports the camera's RAW files, as attempted editing may result in file corruption.

Using Plugins ^{Pro}

Capture One 12 introduces the concept of Plugins which can greatly expand the possibilities to edit your images. Plugins comes in two main flavors: Plugins will enable you to publish images directly on an online photo gallery solution or to social media, and plugins that will let you edit or open images with specialized image adjustments, like the Helicon Focus plugin.

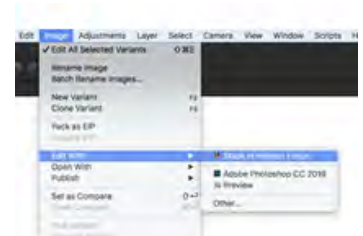
The **Edit With** and **Open With** commands have been made plugin-aware in Capture One 12, which means that you activate an installed edit-based plugin simply by selecting **Image > Edit With > Plugin** or **Image > Open With > Plugin**.

You will now be presented with a number of adjustments options that are specific to the installed plugin. Please visit the plugin vendor's website for instructions on how to use these settings. You might also get the familiar **Basic**, **Adjustments** and **Metadata** settings that is part of Capture One's normal Edit With functionality.

Please see the section Process RAW files and export to Helicon Focus [here](#) to learn how to use the **Helicon Focus** plugin

Note that you don't need to use any plugins to edit the image in an external application, you can still just select Image > Edit With > Photoshop to edit an image in Photoshop. You will then only use Capture One's Basic, Adjustments and Metadata settings to convert the file(s).

Please see the [Plugins](#) section on how to get and install plugins.



Making image adjustments with an external editor

With the Edit With... command, you can export images to an external image editor of your choice and are then automatically imported back into Capture One as a new variant. This "round-trip" capability allows you to seamlessly integrate your workflow with editors such as Photoshop or Helicon Focus, for example.

Images are processed by Capture One first, therefore this option is intended primarily for RAW-based variants which can be exchanged as either 8-bit or 16-bit PSD or TIFF files, or 8-bit JPEGs. Typically, 16-bit ProPhotoRGB is recommended for preserving color detail (including mono conversions) using either the PSD or TIFF file format, though bear in mind TIFF is more efficient when updating metadata and is compatible with a wide range of applications.

Note PSD files can contain adjustments, layers, text or smart objects and should be saved with **Maximize Compatibility** enabled, however layers (including text) will be flattened if reprocessed from Capture One using the Edit With... command. TIFF files saved with alpha channel or layers are also supported in Capture One but will be similarly flattened when reprocessing. It is recommended, therefore, to use the Open With... command when additional adjustments are required using an external editor.

1. Select the image variant from the browser to be edited in Photoshop, or other third-party program.
2. Choose **Image > Edit With >** from the main menu (or right-click from the browser on an image and select **Edit With...**) and select the application.
3. From the **Basic** tab of the Edit Recipe dialog that appears beneath the main Toolbar, select the image **Format** to be exchanged.
4. When selecting the PSD or TIFF file format, choose the appropriate bit depth and optional compression schemes. Note, the JPEG file option is offered for specific solutions, such as quick-proofing, and is not recommended for intensive image editing.
5. A **No Thumbnail** option is set by default, as some third-party programs may inadvertently adopt the thumbnail for editing.
6. Select a working color space from the **ICC Profile** fly-out menu. A color space with a wide gamut should be adopted where possible, such as ProPhotoRGB.
7. **Resolution** and **Scale** options should be left to the default settings, unless the image is to be resized.
8. From the **Adjustments** tab, select Disable Sharpening and Ignore Crop options as desired.
9. Click on the **Edit Variant** button to begin the exchange. If not already running, Capture One automatically opens the external editor and converts the image file using the chosen image options applied (above). Note, once configured, Capture One will remember the settings for further exchanges.
10. Make your adjustments in the external editor, and select save.
11. The new image is automatically stored in the same location as the original source file, and a thumbnail will be displayed in the Capture One browser while the image is open in the external editor.
12. Take care not to make edits (particularly local adjustments) to the variant in Capture One before the image is saved in the external editor, as the result is unpredictable. Once saved, adjustments made to the image using the external editor are updated and displayed in Capture One.

Note that there is no **Open With** drop-down menu option like there was in earlier versions of Capture One. The image(s) will open in the application you original selected with the **Image > Edit With >** command. The reason for this change is that the Edit With functionality is actually a part the new Plugin feature in Capture One 12.

Opening images in an external editor

The Open With command allows previously processed images (i.e., PSD, TIFF or JPEG files) to be opened in an external application. This is useful, for example, when you want to return to an application and make additional adjustments to previously exchanged files. Note if you select a RAW-based



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Preparing Images for Output

This section describes how to export copies of your original images, as well as process and output variants that you have created. Capture One also provides a variety of ways to showcase work. You can print photos, create a slideshow or export to a Web Contact Sheet.

Exporting Originals and Variants

With Capture One's dedicated Export function, you can quickly export copies of your source files as your originals, with or without adjustments as separate files for further editing. Variants from source files can also be exported. Variants are processed using a single Process Recipe only.

Processing Variants^{Pro}

Capture One Pro enables you to prepare image variants for processing using Process Recipes from a dedicated Output Inspector. Although like the Export Variants feature, the customizable Process Recipes in the Output Inspector enable simultaneous processing of images into multiple file formats, sizes and color spaces. They're also used to control keywords, add or remove sharpening, and add watermarking to images. You can also find out how to rename images, set the output location and use the Batch Queue to reprocess images.

Publishing images^{Pro}

Capture One 12 introduces the concept of Plugins which enables you to publish your images directly to an online photo gallery solution or to social media.

Plugins^{Pro}

Capture One 12 introduces the concept of Plugins which can greatly expand the possibilities to either edit or publish your images.

Web Gallery^{Pro}

The Web Contact Sheet lets you showcase your work by creating web photo galleries.

Printing Images

Print selected images using customized print layouts with watermarks, annotations and color profiles.

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Exporting Originals and Variants

OUTPUT / RAW / JPEG / TIF / EIP

With Capture One's dedicated Export function, you can quickly export copies of your source files as your originals, with or without adjustments as separate files for further editing. Variants from source files can also be exported. Variants are processed using a single Process Recipe only.

About Exporting

Find out about how to export copies of your source files in their original format, with or without adjustments as separate files, allowing additional editing by your colleagues. Capture One also enables you to export your source files with all the adjustments applied as new image variants, using a popular image format such as JPEG, TIFF or PSD.

File Formats

Find out about the file format options in Capture One when exporting.

Export Originals

Capture One creates virtually identical copies of your source files when exporting originals, either with or without the settings files, so you can share them with colleagues.

Export Variants

Capture One uses a recipe with the intended image parameters and creates new images from your source files when exporting.

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About Exporting

Find out about how to export copies of your source files in their original format, with or without adjustments as separate files, allowing additional editing by your colleagues. Capture One also enables you to export your source files with all the adjustments applied as new image variants, using a popular image format such as JPEG, TIFF or PSD.

- [Overview of exporting](#)

Overview of exporting

When the time comes to share your image files, whether that's with a multi-national client or more simply a member of your family, in Capture One you have the option of either exporting or processing files.

When exporting you have a choice of selecting originals or variants. When selecting originals, a dedicated dialog opens enabling you to export copies of your source files as originals with separate settings files (i.e., in their native format with no adjustments applied) and metadata in XMP sidecars.

Source files aren't limited to RAW formats, they can be JPEG, TIFF, PSD or PNG. This is useful if you're managing a separate Digital Asset Management (DAM) system, but you may have to modify Capture One's settings for the migration of metadata in XMP sidecars.

Capture One can also export DNGs as originals. Like the others, these are also copies of your source files and can be from cameras that have had their RAW file formats converted to DNG before being imported, or they can originate from a number of cameras that write DNG natively.

In either case, the cameras' RAW file formats must be officially supported. If they're not, the importer will not recognize them. (Note that, DNG support is not optimized for some camera models, and some of the permutations may not be available.)

In general, those that were successfully converted prior to importing will, on export, have the adjustments from Capture One saved as separate settings files and metadata will be embedded.

With native DNG files, however, neither the adjustments nor metadata applied in Capture One can be embedded or even extracted as separate files when exporting. The originals will remain as they were captured. Like other formats, though, the Export dialog enables you to name or rename them and create folders to organize them in.

When applied to variants, the concept of exporting and processing is essentially the same. As Capture One always works non-destructively, your source files are copied and any adjustments made are applied using a file format of your choice. Exporting or processing to DNG is possible from RAW source files but not for previously processed source files such as JPEG or TIFF.

With Capture One Express for Sony (ES) you can rename the files, add output sharpening, choose which metadata to include such as descriptions and keywords, and create folders and sub-folders. For more information on this, see the section on [Exporting Variants](#).

Capture One Pro has more options available when exporting such as managing keywords, descriptions and copyright details and other metadata and the option to export RAW files as self-contained EIP files for archiving or sharing between colleagues, for example.

When working with a high-volume of images and on high-pressure assignments, Capture One Pro has dedicated Output inspector with multiple customizable recipes that enable simultaneous image processing. Not only does this allow you to process a selection of image files into several formats, color spaces and sizes, but also to rename add watermarks and organize the files, greatly improving the workflow at this critical stage. For more information this, see the [Processing Variants](#) section.

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File Formats

Find out about the file format options in Capture One when exporting.

- File formats for export

File formats for export

RAW files are not intended as final files for output. They must be converted and processed into recognized image file formats such as JPEG, TIFF, and PSD. You can specify the new file format to create while exporting your files. Capture One never alters the source files during processing, it creates copies and saves them as a new file format instead.

When there is a need to share RAW files and associated settings and metadata, we recommend exporting the original in a package as an EIP file (choose File > Export Images > Originals > Options > Pack as EIP). All the necessary files are contained in the package. For more information, see the section on [Working with EIP files](#).



1. These are the file formats that you can choose during export:
 - o **JPEG** - Creates a new 8-bit file with lossy compression to attain a smaller sized file (e.g., compared to a TIFF) for convenience. The Quality setting determines the amount of compression applied, and therefore file size. The lower the quality, the smaller the file and the greater the loss of information. JPEG compression also adds some noise to an image.
 - o **JPEG QuickProof** - This setting creates images for evaluation purposes. Capture One creates the image file from the settings files without additional calculations or filters. JPEG QuickProof should not be considered as a final file for distribution; it is ideal for ultra quick evaluation purposes only.
 - o **JPEG XR** (extended range) - This format supports higher compression ratios with equivalent quality to the original JPEG format. It is fully compatible with Capture One from version 7 onwards, and certain Microsoft products.
 - o **JPEG 2000** - Offers superior compression and handling of color space profiles. It is available in either 8-or 16-bit color depth.
 - o **TIFF** - Preserves maximum quality. TIFF is a lossless format. Selecting TIFF enables the option of 16-bit output for higher color accuracy and optimum quality.
 - **Options:**
 - TIFF files can additionally be compressed; both LZW and ZIP compression options are lossless.
 - No Thumbnail - Enable to remove system level thumbnail and further reduce file size.
 - Tile Dimensions - Not Tiled (default). Tiles allow efficient compression and decompression of large, high-resolution images (typically, in excess of 60MP). As only the image data required for display is decompressed, tiling can improve the browsing experience once processed to a full-size TIFF file.
 - o **DNG** - Creates a new lossless RAW file based on the Digital Negative specification. There are no options available to modify the format. Adjustments and metadata added to the image are typically not retained.
 - o **PNG** - This option supports lossless data compression and is

suitable for distribution, however, while PNG offers good compatibility with web-browsers file sizes are usually larger than JPEG.

- o **PSD** - Ensures optimum quality and compatibility with Adobe Photoshop, and is ideally suited for working with layers. Available with 8-or 16-bit depth color option.

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Export Originals

Capture One creates virtually identical copies of your source files when exporting originals, either with or without the settings files, so you can share them with colleagues.

- Overview of exporting originals
- Exporting originals
- Exporting DNGs
- Exporting RAW files, settings and metadata in self-contained EIP files
- Further options

Overview of exporting originals

When exporting originals, Capture One enables you to export copies of your source files as originals with separate settings files (i.e., in their native format with no adjustments applied).

Capture One must have access to the originals. When using a Catalog this will typically be by referencing the files, either on a local drive, or by connecting an external drive instead. If the files are stored physically inside the Catalog itself (as shown adjacent to the In Catalog field, under the Folders panel of the Library), Capture One already has access, however the images will still be copied on export. This should not be used as a means of purging the files from your Catalog.

Exporting originals is more likely to be chosen when you want to share files with colleagues and further editing is expected. The Export dialog offers two options for this. You can either include adjustments, where the Capture One settings and previews are exported in a separate [CaptureOne] settings folder along with XMP sidecar files, or opt to pack RAW files as Phase One Enhanced Image Package (EIP) files. Both options allow all adjustments and metadata to be included when importing back into another copy of Capture One. Phase One EIP files, however, include the source file and all the associated settings and metadata files and any additional profiles together in one file, making it impossible for the individual files to become separated.

When exporting RAW files in their native format, individual XMP sidecar files will accompany them, which can be useful if you're maintaining a separate DAM system. You may have to modify Capture One's application preferences settings for the migration of metadata in XMP sidecars, as when left to the default settings, no metadata will be included. If you only want to add metadata such as keywords, ratings, color tags and descriptions on an ad hoc basis, select Sync Metadata from the action menu in the Metadata panel's title bar.

Exporting originals

Capture One lets you quickly export virtually identical copies of the original RAW, JPEG, TIFF or PNG source files, directly from the main menu or browser to a folder location on your local computer or external drive. Note the source files must be available to Capture One.

Originals can be exported with the adjustments as separate settings files. With Capture One Pro, you can also export RAW files complete with adjustments, ICC profiles, and LCCs in self-contained EIP files. Both these options enable you, for example, to send the files to other Capture One users who can choose to continue to use edited (or unedited) image files prior to making further amendments, should the need arise.

Capture One does not re-compress previously processed JPEGs when exporting. Although the file quality will not differ with JPEGs, or with TIFFs, the file size may increase slightly if extensive metadata has been added.

1. Select the image, or images, from the browser that you want to export.
2. From the main menu, go to File (or right click) > Export > Originals...



- Alternatively, right click on a Session Folder, Session Album or Catalog Collection and select Export > Originals... from the menu options. The Export dialog will open.
3. From the **Destination** drop down menu in the Location tab, navigate to a desired location to save the exported image files to. Add a folder and name it in the Sub Folder text field. See more about organizing images into folders and using the dynamic locations feature here.
 4. Enter a name directly in the **Format** text field, or choose a naming format by clicking on the action button (...) in the Naming tool and adding the appropriate tokens. Type a Job name if applicable, and add the Job Name token in the Format text field to add it on output.
 5. Select or deselect any relevant fields in the Options tab. (The **Notify When Completed** option is selected by default).
 6. Click on **Export Original** to complete the process. When multiple images are selected, the task is added to the Batch Queue and is executed in the background, enabling users to continue their work during the export process.

Exporting DNGs

Capture One can export DNGs in their original format, however, depending on the support for the file type, some export options may not be available.

DNGs that originate from a number of supported cameras, such as certain models from Leica or Pentax that write the format natively can be exported in their original format. Note, however any adjustments or metadata applied in Capture One cannot be included as separate files.

Therefore, if re-imported into Capture One, the originals will be treated as new RAW files with only the default settings applied.

When RAWs from supported cameras are embedded and converted to DNGs, some increased interoperability may be available. In most cases, these DNGs usually have adjustments as separate settings files. Any additional metadata such as keywords or IPTC contact information will typically be embedded.

If settings and other associated files are required with DNG for further use in Capture One (e.g., in collaborations), it's recommended that they are exported in a self-contained EIP package.

Like other source files, Capture One makes virtually identical copies of DNGs in order to preserve the integrity of the originals.

Any supported RAW file, including DNG, can be distributed from Capture One with adjustments, metadata and any relevant profiles in self-contained EIP files. See below for more information.

Exporting RAW files, settings and metadata in self-contained EIP files

With Capture One Pro, you can export RAW files complete with settings (adjustments), metadata, and where appropriate with ICC and LCC profiles, in self-contained EIP files.

EIP is much more convenient than when moving RAW images and their associated files (such as settings and adjustments, metadata, ICC profiles, LCC profiles and annotations) between computers running Capture One Pro.

Note that JPEG and TIFF files cannot be packed and exported as EIP files.

1. Select the intended images that will be shared as EIP files.
2. From the main menu, choose File > Export Images > Originals.
3. Add any folder and file naming options from the Location and Naming panels as necessary, and check mark **Pack As EIP** in the **Options** panel.
4. Click on the **Export Original(s)** button, or press cancel to stop the process. When Export Original(s) is chosen, the RAW files are automatically packed and the extensions will be renamed .EIP.

Further options

Enable Notify When Completed when you want to confirm that the processing was successful. A dialog opens with the path to the destination location.

When using a Session, you can opt for the folder containing the processed images to be added as a Session Favorite. Use this option when you have chosen a destination other than the default Sessions Output sub-folder, and you want to keep track of your processed files from within the Session itself.

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Export Variants

Capture One uses a recipe with the intended image parameters and creates new images from your source files when exporting.

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- [Exporting variants](#)
- [Modify file settings](#)
- [Exporting to DNG](#)
- [Add folder to Session Favorites](#)

Overview of exporting variants

In Capture One, exporting variants is conceptually the same as processing them. By applying any settings or adjustments made, Capture One creates new images from the source files, and saves them as either JPEG, TIFF, PNG, or PSD file formats. When selecting DNG as the intended file format, any adjustments made or metadata added in Capture One will not be retained. Source files must be available to Capture One when exporting. For example, if the images are located on an external drive, the drive must be connected.

Capture One Pro has some additional functionality and can export variants with metadata such as descriptions, copyright details and keywords. You can also have annotations rendered with the image or as a separate layer, when saving to PSD.

Exporting variants

In Capture One Express (for Sony), the Export Variants dialog window offers options to select a destination for the new images along with folder creation, file naming or renaming, and a single recipe for selecting the parameters of the new file such as intended file format, image size and color space.

With Capture One Pro you can also add or disable sharpening and include metadata, such as EXIF data, Keywords and other IPTC data. With the exception of being able to export images with watermarks and using multiple process recipes, the processing and naming options are practically identical to those offered under Capture One Pro's dedicated Output inspector.

1. Select the image or images, from the browser that you want to export.
2. From the main menu, go to File (or right click) > Export > Variants... Alternatively, right click on a Session Folder, Session Album or Catalog Collection and select Export > Variants... from the menu options. The Export Variants dialog box will open.
3. From the **Destination** drop-down menu in the **Location** dialog, navigate to a desired location to save the exported image files to. If desired, add a folder and name it in the optional Sub Folder text field.
4. In the **Naming** dialog, enter a name directly in the **Format** text field, or choose a naming format by clicking on the Action button (...) and adding the appropriate tokens. Type a Job name if applicable, and add the Job Name token in the Format text field to enable it.
5. Go to the **Recipe** dialog and select the file format, quality and other parameters as desired. For more information, please see the section on [Process Recipes](#).
6. Click on the **Export Variant** button. When multiple images are selected, the task is added to the Batch Queue and is executed in the background, enabling users to continue their work during the export process.



Modify file settings

Capture One use Recipes for file settings when exporting images. Every setting is saved and will be available next time the recipe is selected. For more information on the various settings and choices, see the section on Process Recipes which offers many of the same options.



1. Select the image or images to export and from the main menu, choose Export Images > Variants.
2. Go to the **Recipe** tool and select the **Basic** tab.
3. From the **Format** drop-down menu, choose the desired file format.
4. From the **ICC Profile** drop-down menu, select the appropriate output profile. The choice of color space depends on the final purpose of the image file (e.g. sRGB for Web use, Adobe RGB for print).
5. In the **Resolution** field, specify the required resolution. Unless a specific resolution is required this can be left at 300 px/in (ppi).
6. From the **Scale** drop-down menu, either select the default Fixed 100% to use the resolution to resize the image (keeping the native pixel count unchanged), or select the print dimensions independently to resample the image. If not sizing images for the Web or to print, you can leave the setting to the defaults.
7. From the **Open With** drop-down menu, select a compatible application to automatically open and view a processed image. For example, Phase One Media Pro, or Adobe Photoshop. This option is not recommended if multiple images are processed in one batch.
8. From the **File** tab, select the output destination from the **Root Folder** drop-down menu. Select from the original image folder, another folder of your choice, or select Export Location for the Desktop or navigate to a desired folder.
9. From the **Adjustments** tab, choose from the cropping and sharpening options as necessary.
10. From the **Metadata** tab, add check-marks to include ratings, copyright, GPS, EXIF data, and manage keywords from the drop-down menu.

Exporting to DNG

When exporting RAW files as variants using the DNG file format option, the settings files (e.g., any image adjustments made) and metadata such as descriptions, keywords, ratings and color tags are not retained. You can, however, archive or share your RAW files complete with all adjustments and metadata intact by packing them together as EIP files instead. For more information, see the section on [Exporting images as EIP files](#).



Note also that exporting native DNG files as variants from the original Leica M Monochrom, Leica M Monochrom (Typ 246) and Leica M (Typ 262) using the DNG file format is not supported.

Add folder to Session Favorites ^{Pro}

Capture One Pro enables you to add the destination folder to the Session Favorites. Use this option when you have chosen a destination other than the default Sessions Output sub-folder, and you want to keep track of your processed files from within the Session itself.

1. **(Capture One Pro Sessions only)**. Enable **Add folder to Session Favorites** when you want the folder containing the processed images to be added as a Session Favorite.
2. Enable **Notify When Completed** when you want to confirm that the processing was successful. A dialog opens with the path to the destination location.

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Processing Variants^{Pro}

PROCESS IMAGES / PROCESS RECIPE / WATERMARK / TIF / WEB CONTACT SHEET

Capture One Pro enables you to prepare image variants for processing using Process Recipes from a dedicated Output Inspector. Although like the Export Variants feature, the customizable Process Recipes in the Output Inspector enable simultaneous processing of images into multiple file formats, sizes and color spaces. They're also used to control keywords, add or remove sharpening, and add watermarking to images. You can also find out how to rename images, set the output location and use the Batch Queue to reprocess images.

Proofing Colors

Capture One can proof colors in one color space while processing a file to a second color space.

Working with Process Recipes

Find out about Process Recipes, how to use them and customize them, or create new ones to suit your needs.

Image Settings (Basic Tab)

View or modify the Process Recipe's preconfigured settings for file format, bit-depth, quality, output color space (ICC profile) and image dimensions from the Basic tab.

Output Location and Folder Naming

Set the destination location for output and create and name folders and sub-folders from the Process Recipe's File tab. Find out how the Recipe's File tab integrates with the separate Output Location and Naming tools.

Managing Sharpening and Cropping

When preparing images for processing and output from the Process Recipe's Adjustments tab, you can apply sharpening based on the intended output device, or disable sharpening completely. You can also choose to include any cropping made during editing.

Managing Keywords and other Metadata

The Process Recipe's Metadata tab is used to manage keywords, ratings and color tags, and other metadata such as copyright information, GPS and EXIF data. It can also be used to manage annotations and overlays.

Watermarking^{Pro}

Find out how to add a watermark to variants when processing as JPEG, TIFF, PSD, or PNG, using the Process Recipe's Watermark tool.

Batch Queue and Processing History

Capture One automatically processes and outputs batches of photos, arranging them in a queue or line as computer resources dictate. A history or record of images that have been previously output is maintained, making it easy to find individual photos for reprocessing.

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Proofing Colors

Capture One can proof colors in one color space while processing a file to a second color space.

- Proofing profiles

Proofing profiles

Capture One displays the image with the output profile applied from the selected process recipe, however Capture One can display another ICC color space profile without altering the recipe.

Proofing a specific profile is useful for determining any unexpected color changes and is a crucial step in a color-managed workflow and is essential when printing, where a mistake will result in the waste of ink, paper and time. This option allows you to override the current profile and display the image as it would render if a different output device was chosen. It is particularly useful, for example, when you have to supply an image in an RGB color space to a printing lab, yet want to proof the image using the lab's recommended CMYK profile.

Capture One's default setting is to render previews with the output profile applied directly, by selecting the desired profile from the Proof Profile option available from the main menu (View > Proof Profile > Selected Recipe). Note the input device profiles (e.g., camera profiles) associated with the source image files are not altered by Capture One.

1. Select the image variant in the Browser that you want to proof.
2. From the **Output** Inspector, select the appropriate recipe in the Process Recipes panel.
3. In the **Process Recipe** panel below, go to the **Basic** tab and select or verify the output profile listed in the **ICC Profile** field.
4. Verify Capture One is rendering the image using the appropriate output profile. From the main menu, select View > Proof Profile > Output Recipe Profiles > Selected Recipe (or one of the listed recipes, if desired).
5. Repeat selection from the main menu and select View > Proof Profile and select the appropriate RGB/CMYK profile from the list. (Select All if your system profiles aren't displayed, and then select from the list.) Select an appropriate print profile, when you want to print your images.
6. Capture One renders the selected image using the chosen profile, instead of the output profile.
7. To process the image according to the recipe's parameters, click on the **Process** button.

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Working with Process Recipes

Find out about Process Recipes, how to use them and customize them, or create new ones to suit your needs.

- Benefits of using process recipes
- Process image variants using recipes
- Process multiple file formats simultaneously
- Verifying recipe settings
- Proofing recipes
- Create a process recipe
- Modifying recipes
- Duplicate a Process Recipe
- Resetting recipe settings
- Process summary warning

Benefits of using process recipes

As Capture One works non-destructively, the application never alters the original image files in any way. When images are required in the various sizes, formats and color spaces to send to a client, or to publish on the web or send to a printing service, Capture One creates new images from the source files during processing by applying all the saved settings and adjustments, that you can use time and time again.

You can specify JPEG, TIFF, PNG, DNG or PSD file formats, set new image dimensions, convert color spaces and embed profiles, add output sharpening, and include metadata, such as EXIF data, Keywords and IPTC data. Capture One can also rename and group images into a sub folder hierarchy within the parent or root folder using the semi-automated dynamic locations feature.

Although you can use the Export Variant command to process image variants, available from the main menu or contextual menu (Ctrl/right-click), this option is limited to a single recipe. This is fine when all of the variants selected for export are to be processed, for example, into the same file format, or you want them to have the same color space, or group of keywords, but if you require different settings, you have to alter the recipe each time. Not only is this time-consuming when working with a high volume of image variants, it is also error-prone.

When adopting Capture One Pro's Output tools instead, you have the option to use Process Recipes. These are groups of pre-configured output settings, or presets, that you can select for various requirements. Process Recipes not only allow you to customize and save your most frequently used settings, but by selecting one or more of these recipes from the list, you can simultaneously process multiple copies of the same image or selection of images, according to your needs. For example, the same image or group of images can be simultaneously processed in different formats, sizes or color spaces. It is as simple as adding checkmarks to the appropriate recipes, and clicking Process.

The Recipes in the Output inspector also have a few extra features over the Recipe option in the Export panel. As well as watermarking using graphics files or the built-in text editor, when selecting the PSD file format, there is the ability to share images with watermarks, annotations and transparency overlays as individual layers, while any cropping applied can also be saved as a path.

Note you can export or process managed images directly but, when images are referenced, Capture One must have access to the source files. Note also



that DNG archival options are not supported, thus adjustments and metadata applied in Capture One may not be fully implemented during processing.

Process image variants using recipes

Capture One is supplied with several presets called Process Recipes for processing and exporting image variants, using common file formats, sizes and profiles. From the Output Tool Tab you can select one or more of the presets from the list in Process Recipes dialog, or specify other settings in the Process Recipe tool, located directly beneath. Note, selecting settings in the Process Recipe tool overrides the selection in the Process Recipes dialog.

1. Go to the [Output Tool Tab](#).
2. Select the image variants for processing from the browser.
3. In **Process Recipes**, checkmark the required recipe(s) for the selected variants. Selecting multiple recipes will simultaneously process and export new files with those recipe settings applied (Capture One Pro only).
4. From the **Process Summary** tool, press **Process**.
5. Processing can be stopped at any time, then edited and re-started from the [Batch Tool Tab](#).



Process multiple file formats simultaneously ^{Pro}

Capture One can process and export an image variant or variants in multiple file formats, image sizes and color spaces, with or without a watermark, keywords or sharpening, all at the same time. Each recipe selected will create a new image file with the specified settings applied.

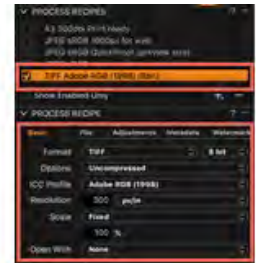
1. Go to [Output Tool Tab](#).
2. Select the image variants in need of processing.
3. Go to the **Process Recipes** tool and checkmark the relevant recipes in the list.
4. From the Process Summary tool, click on the **Process** button.



Verifying recipe settings

Before exporting images using the recipes displayed in the Process Recipes tool, you can view the settings to check they are suitable for the intended purpose. When using Capture One there are several predefined recipes listed in the Process Recipes dialog. If you suspect they're not all showing, click on the tool's Action menu (...) > Add recipe > and select the recipe from the list, or long-click on the + (plus) icon to reveal the list and select the recipe directly. The recipe will be added to the list in the dialog.

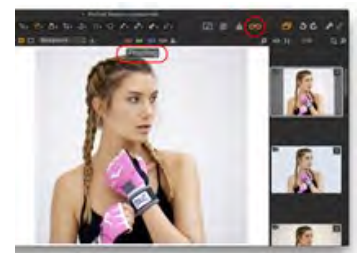
1. Click on the desired recipe from the list shown in the Process Recipes tool; the selected recipe will be highlighted with an orange bar (turns silver colored, when clicking outside the dialog).
2. Check the settings below in the **Process Recipe** tool correspond with the highlighted recipe. All the settings apply, including those located under each tab.
3. Verify and amend incorrect settings. For example, the highlighted recipe states **JPEG 80% Quality Full Size (Adobe RGB)**, yet under the **Basic** tab, the Format field shows TIFF. To update the recipe, alter the **Format** field to JPEG, set the **Quality** slider to 80%, confirm the **ICC Profile** selected is Adobe RGB, and **Scale** is set to Fixed 100%. Settings are automatically saved.



Proofing recipes

Capture One can also soft-proof the selected recipe, thereby revealing any scaling, compression, or sharpening artifacts on-screen prior to output. By adjusting the settings with the proof mode enabled, you can see the real-time effect on-screen of individual selections, such as the effect of down-sampling when resizing images for the Web.

1. Select the image variant in the browser that want you to proof the settings for.



2. Highlight the recipe (or create a new recipe) from the list in the Process Recipes dialog, located under the Output Tool tab.
3. Go the **Process Recipe** tool, and under the various tabs select the processing settings, including the image size, profile, and output sharpening, where applicable.
4. Click on the Show Recipe Proofing (glasses) icon in the main tool bar, or from the main menu, select **View > Recipe Proofing**.
5. All the recipe settings applied to the image variant will be visible on screen for evaluation.

Create a process recipe ^{Pro}

Capture One Pro offers a number of predefined process presets, or Process Recipes, when exporting images. However, if the process settings don't meet your needs exactly, you can update the existing recipe or create your own. When you modify a built-in recipe, the original is not permanently altered, nor can it be deleted.

Note, multiple recipes are only available in Capture One Pro or Capture One DB. Only steps 4 to 7 are relevant with Capture One Express (for Sony).

1. Go to the Output Inspector
2. In Process Recipes tool click on the New Recipe (+ icon) in the foot-bar using a short press. An untitled recipe will be added to the list. The new recipe is based on the full-size TIFF (Adobe RGB) 8-bit preset. Alternatively, highlight a recipe to copy, click on the tool's Action button (... icon) and select **Duplicate Recipe**.
3. Click on the new recipe and rename it. A descriptive name using the format, size and color space is recommended. Warning! Clicking on the - (minus) icon will remove the recipe from the list, and, if it's a newly created recipe, it will be permanently deleted .
4. From the **Process Recipe** tool's **Basic** tab, choose the desired file format from the **Format** drop-down menu. See more on file formats.
5. Select the appropriate output profile from the **ICC Profile** drop-down menu. The choice of color space depends on the final purpose of the image file (e.g, sRGB for Web use, Adobe RGB for print).
6. Specify the required resolution in **Resolution** field and from the **Scale** drop-down menu, either select the default Fixed 100% to use the resolution to resize the image (keeping the native pixel count unchanged), or select the print dimensions independently to resample the image. If not resizing images for the Web or to print, you can leave the setting to the defaults.
7. Select a compatible application from the **Open With** drop-down menu to automatically open and view a processed image. For example, Phase One Media Pro, or Adobe Photoshop. This option is not recommended if multiple images are processed in one batch.
8. From the **File** tab, select the output destination from the **Root Folder** drop-down menu. Select from the original image folder, another folder of your choice, or select Output Location to defer to the Output Location tool.
9. From the **Adjustments** tab, choose from the sharpening options as desired.
10. From the **Metadata** tab checkmark the options for including ratings, copyright, GPS, EXIF data and manage keywords from the drop-down menu.
11. From the **Watermark** tab, choose whether or not add a watermark to exported images.
12. Every setting is saved and will be available next time the recipe is selected.

Modifying recipes

When adopting one of Capture One Pro's pre-configured process recipes, the settings may require some adjustment to suit your needs. When you modify a built-in recipe, the original is not permanently overwritten and can be reselected at any time.

The original built-in recipe can be restored from the **Process Recipes** panel's Action menu (... icon), choose Add Recipe > [Recipe Name] or from the New Recipe button (+) icon in the foot bar.

Modifying a recipe is simple. Each field can be edited and the settings are



saved for the next time. However, if it's a group of settings that you are likely to use again, it makes sense to create a new recipe specifically for the task.

To create a new recipe from one that has been modified is easy, you only have to duplicate it and give it a new name.

1. Modify an existing recipe and click on the Action menu button (...) icon. The action menu opens.
2. Select Duplicate Recipe
3. Click in the new recipe's text field and give it a meaningful name.
4. Click outside of the recipe's text field to save the settings.

Duplicate a Process Recipe

To create a new Process Recipe from a built-in recipe or one that has been modified is easy, you only have to duplicate it and give it a new name. Once duplicated you can modify it as required. The settings are saved automatically.

1. Go to the Output Inspector.
2. From the Process **Recipes** Panel, and select a recipe. (The recipe is selected and active below in the Process Recipe panel)
3. Click on the Action menu button (...) icon. The action menu opens.
4. Select **Duplicate Recipe**
5. Click in the new recipe's text field and give it a meaningful name.
6. Click outside of the recipe's text field to save the settings.
7. In the Process **Recipe** panel below, modify the new recipe's settings across all the tabs, as necessary. The settings are saved automatically.

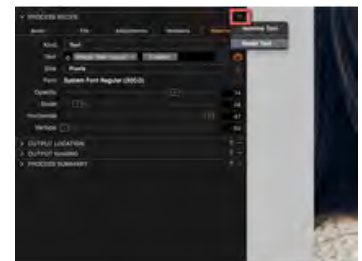


Resetting recipe settings

You can reset the recipe's output settings using the tool's reset option.

Warning! This resets the recipe to the default output settings (i.e., Full Size, 8-bit TIFF (Adobe RGB)). You will likely need to re-enter the appropriate output settings to match the related recipe listed above in Process Recipes panel.

1. Navigate to the Output inspector.
2. Go to the Process Recipe tool.
3. Click on the Action button (...) icon) in the tool's title bar. A two-option menu opens.
4. Click on **Reset Tool**. Warning! This resets the recipe to the default output settings (i.e., Full Size, 8-bit TIFF (Adobe RGB)).
5. Re-enter the appropriate output settings to match the related recipe listed above in Process Recipes panel.



Process summary warning

The Process Summary dialog provides an overview of all the chosen settings for an image variant, or variants, before processing. This includes the processed image size, file name, file format and predicted file size. Any red highlighted figures are there as a warning that something will not be processed as expected. Check the highlighted figures and make the necessary alterations (e.g. change the dimensions), before pressing the Process button.



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Image Settings (Basic Tab)

View or modify the Process Recipe's preconfigured settings for file format, bit-depth, quality, output color space (ICC profile) and image dimensions from the Basic tab.

- Specifying file format
- Specifying color space
- Image dimensions and resolution
- Set dimensions according to resolution (resize)
- Check image size
- Check file size
- Set dimensions and resolution (resample)
- Open with an external application

Specifying file format

RAW files are not intended as final files for output. They must be converted and processed into recognized image file formats such as JPEG, TIFF, and PSD. You can specify the new file format to create as part of the recipe. Capture One never alters the source files during processing, it creates copies and saves them as a new file format instead.

Selecting DNG creates a new RAW file based on the DNG specification. You can not convert and process previously processed files such as JPEGs and TIFFs into DNGs. Note that Capture One does not officially support the inclusion of adjustments and metadata with RAW files selected for conversion and processing into DNGs.

Although it may be possible in some cases to output an existing DNG as a new DNG file, it is not a workflow that is supported in Capture One. For example, processing to DNG is possible for native DNG files from several Leica models including the Leica M240, however, it is not supported for DNGs from the Leica M Monochrom, M246 and M262.

When there is a need to share RAW files and associated settings and metadata, we recommend exporting the original in a package as an EIP file (choose File > Export Images > Originals > Options > Pack as EIP). All the necessary files are contained in the package. For more information, see the section on [Working with EIP files](#).

1. Highlight the recipe (or create a new recipe) to edit from the list in the **Process Recipes** dialog.
2. From **Process Recipe** tool, choose the **Basic** tab and then, from the **Format** drop-down menu, choose from one of the following options:
 - o **JPEG** - Creates a new 8-bit file with lossy compression to attain a smaller sized file (e.g., compared to a TIFF) for convenience. The Quality setting determines the amount of compression applied, and therefore file size. The lower the quality, the smaller the file and the greater the loss of information. JPEG compression also adds some noise to an image.
 - o **JPEG QuickProof** - This setting creates images for evaluation purposes. Capture One creates the image file from the settings files without additional calculations or filters. JPEG QuickProof should not be considered as a final file for distribution; it is ideal for ultra quick evaluation purposes only.
 - o **JPEG XR** (extended range) - This format supports higher compression ratios with equivalent quality to the original JPEG



format. It is fully compatible with Capture One from version 7 onwards, and certain Microsoft products.

- o **JPEG 2000** - Offers superior compression and handling of color space profiles. It is available in either 8-or 16-bit color depth.
- o **TIFF** - Preserves maximum quality. TIFF is a lossless format. Selecting TIFF enables the option of 16-bit output for higher color accuracy and optimum quality.
 - **Options:**
 - TIFF files can additionally be compressed; both LZW and ZIP compression options are lossless.
 - No Thumbnail - Enable to remove system level thumbnail and further reduce file size.
 - Tile Dimensions - Not Tiled (default). Tiles allow efficient compression and decompression of large, high-resolution images (typically, in excess of 60MP). As only the image data required for display is decompressed, tiling can improve the browsing experience once processed to a full-size TIFF file.
- o **DNG** - Creates a new lossless RAW file based on the Digital Negative specification. There are no options available to modify the format. Adjustments and metadata added to the image are typically not retained.
- o **PNG** - This option supports lossless data compression and is suitable for distribution, however, while PNG offers good compatibility with web-browsers file sizes are usually larger than JPEG.
- o **PSD** - Ensures optimum quality and compatibility with Adobe Photoshop, and is ideally suited for working with layers. Available with 8-or 16-bit depth color option.

Specifying color space

The choice of color space (determined by the ICC Profile) depends on the final purpose of an image file. The sRGB color space should be adopted for all images intended for the web, and the wider color gamut Adobe RGB color space is a common choice for printing. When selecting images for a printing service or client, however, a custom profile may be preferred. While Capture One is supplied with several common profiles, it can access any of the system profiles, including CMYK color space profiles.

1. Highlight the recipe (or create a new recipe) to edit from the list in the Process Recipes dialog, located under the Output Tool Tab.
2. Go to the **ICC Profile** in the Process Recipe tool, under the Basic tab.
3. Click on the ICC Profile fly-out menu and select the relevant profile from the list. (Select Show All to view all the profiles available on system).
4. The selection is saved automatically to the highlighted recipe.



Image dimensions and resolution

When outputting an image for the web or for printing, you can use Capture One to resize images, keeping the total pixel count unchanged while adjusting the resolution (i.e., pixels per inch) to alter the image dimensions. Alternatively, when resampling, you can specify both the resolution and image dimensions independently.

Resizing, after cropping to the required aspect ratio, is generally considered to deliver the best quality for printing. However, as resampling is carried out on the original data (and of the highest quality), it is suitable for any type of use. Capture One can resample images from 10-250%.

Note, as Capture One tags the image with the resolution and the total number of pixels remains unchanged when resizing, it may not be necessary to alter the image dimensions (e.g., to allow a printer driver or third-party application to resample instead).

Like other process settings in Capture One, the combination of print dimensions and resolution (i.e., image size or document size) is saved as a component of a Process Recipe and the settings are applied on output.



Set dimensions according to resolution (resize)

Capture One's Basic settings tab is used to set an image resolution when processing to JPEG, TIFF, PNG and PSD. The default setting is 300 ppi (px/in).

The Scale option beneath is used either to resize or resample. Capture One will only resize when the Scale option is set to Fixed (100 %). Resizing uses the native pixel count, adjusting the dimensions according to the specified resolution.



In general, this option (300 ppi, Fixed 100%) should be adopted unless a certain resolution and specific dimensions are required, see below.

1. Highlight the recipe (or, preferably, create a new dedicated recipe) to edit from the list in the Process Recipes dialog.
2. Go to **Resolution** in the Process Recipe tool, under the **Basic** tab and enter the required resolution (e.g., 300 px/in).
3. Set the **Scale** fly out menu to **Fixed 100%**. (Note when any setting other than Fixed (100%) is selected from the Scale fly-out menu, Capture One will resample the image based on the specified resolution and image dimensions.)
4. In the **Process Summary** dialog, verify the maximum dimensions for the selected resolution in the **Size** field (e.g., 18.72 x 12.8 in (5616 x 3744 px)).
5. Optional. To increase or decrease the dimensions, return to step 2 and enter a lower or higher resolution respectively, and verify the values again in the **Size** field located in the **Process Summary** (click inside the dialog, to update the value).
6. After verifying, click the **Process** button in the Process Summary dialog to output the selected images.

Check image size

When prepping files for print (or the web), you can check the maximum image size (i.e., image dimensions) for a given resolution, using Capture One's Process Summary dialog.

For example, newspapers typically require image files at 150 ppi, magazines and book publishers at 300 ppi (or 350 ppi for higher quality printing), while desktop printer drivers are usually optimized for files between 240-360 ppi.

As the pixel dimensions are known, simply add a required image resolution in the Basic tab of the Process Recipe and the maximum size will be displayed in the Summary dialog (you can switch between inches and mm/cm in the recipe).

When the maximum size is too small, resample (i.e., up-scale) in Capture One. If too large, it is generally recommended to submit files with a higher resolution and let the service bureau, desktop printer driver, or RIP resample (i.e., down-size). If images are intended for the web and too large, then resample (i.e., down-size) in Capture One. See below for more details.

1. Select image in the browser.
2. From the **Process Recipes** panel, select a suitable recipe, such as TIFF Adobe RGB (1998) (8-bit), or create a new dedicated recipe (the default recipe adopts the previously mentioned settings.)
3. In the **Process Recipe - Basic** tab, ensure **Scale** is set to **Fixed 100%**.
4. In the **Resolution** box, set the desired image resolution and select either px/in or metric alternatives (px/mm or px/cm) as desired.
5. Go to the **Process Summary** size field to see the resultant maximum image size for the resolution specified in step 4.

Check file size

As an indicator of potential image quality, some clients and photo agencies insist on a minimum file size. This refers to the final image (i.e., after cropping) when processed as an uncompressed 8-bit TIFF, and should not be confused with a recommendation to submit compressed JPEG files, even when selecting best quality (100).

To check that your compressed JPEG file meets or exceeds a minimum file size before processing to file;

1. Select the image in the Browser.
2. In the **Process Recipes** panel, select the built-in **TIFF Adobe RGB (1998) (8bit)** recipe, and verify the settings (i.e., TIFF, 8 bit) match in the **Process Recipe's Basic** tab beneath.
3. Apply any cropping as necessary. (Ensure **Respect Crop** is selected in the **Crop** field's drop-down menu, in the **Process Recipe's Adjustments** tab).

4. Verify the resultant file size in the **File Size** field in the **Process Summary** panel at the bottom of the Inspector.
5. If the file size is still beneath the minimum, return to the **Process Recipe's Basic** tab panel.
6. From the **Scale** field's drop-down menu, verify that **Fixed** is selected.
7. Click inside the percentage (%) text box and press the up-arrow key to increase the value till the file size shown in the Process Summary is at the recommended size. (The file is resampled; Capture One automatically applies the most suitable interpolation method.)
8. Remember to return to the **Process Recipes** panel and select an appropriate recipe to process to file (e.g., a compressed JPEG).

Set dimensions and resolution (resample)

When you need to set the size of your image based on a certain resolution, Capture One has a range of sizing options available under the Scale menu to accommodate a range of workflows.

First select the resolution and then the appropriate dimensions from the Scale drop-down menu. Capture One will select the most appropriate scaling method.



When an image is being sized to match two fixed dimensions (e.g., when an image is being printed on sheet paper, rather than roll paper), the image may have to be cropped to match the aspect ratio. This can be achieved either beforehand or at the time of selecting the dimensions.

1. Highlight the recipe (or, preferably, create a new dedicated recipe) to edit from the list in the Process Recipes dialog.
2. Go to **Resolution** field in the Process Recipe panel, under the Basic tab and enter the required figure (e.g., 300 px/in).
3. From the **Scale** fly out menu choose from one of the following options, and with the exception of Fixed, specify the measurement unit and the dimension:
 - o **Fixed** - To resample, specify a percentage other than 100%; less than that value will downsample, any value above will upsample using interpolation to add pixels. (E.g., selecting 200% doubles the dimensions).
 - o **Width** - Use this option when outputting an image or series of images of the same orientation where the width is to be of a fixed value. The height will be scaled automatically. For example, use this when outputting landscape (horizontal) images to the web with a fixed width, or when printing a portrait (vertical) oriented image, with a height that doesn't match standard paper sizes (e.g., when using roll-paper). Note, when cropping with the crop tool set to **Original**, the image's original aspect ratio is maintained.
 - o **Height** - Use this option when outputting an image or series of images of the same orientation where the height is to be of a fixed value. The width will be scaled automatically. Use this option, for example, when printing an landscape (horizontal) oriented image with a wider aspect ratio than standard paper sizes (e.g., when using roll-paper). Note, when cropping with the crop tool set to **Original**, the image's original aspect ratio is maintained.
 - o **Dimensions** - When the aspect ratios of the image variant match the intended output settings, this option applies the higher value to the longer edge of the image and the lower value to the shorter edge. When the aspect ratios don't match, set the crop tool to **Output** and crop the image, otherwise Capture One will apply just one value. Use this option, for example, when outputting a mixed orientation of images for printing where both paper dimensions are fixed (i.e., when using sheet paper).
 - o **Width x Height** - This option resizes one dimension to fit within the dimensions specified, retaining the original aspect ratio, and irrespective of orientation. Use this option when outputting images with different aspect ratios, and of mixed orientation where both paper dimensions are fixed (i.e., when using sheet paper).
 - o **Long edge** - Performs a similar function to the Width/Height options but this should be used instead when outputting a mix of portrait (vertical) and landscape (horizontal) images where the long edge is to be of a fixed value.
 - o **Short edge** - Performs a similar function to the Width/Height options but this should be used instead when outputting a mix of

portrait (vertical) and landscape (horizontal) images where the short edge is to be of a fixed value.

- o **Never Upscale** - Select this option to prevent Capture One from upsampling (i.e., interpolating) an image (works with all options except Fixed).
4. Verify the print dimensions in the Process Summary dialog in the Size field (e.g., 23.4 x 16.5 in (7020 x 4950 px)).
 5. To increase or decrease the resolution, return to step 2 and enter a lower or higher resolution respectively, and verify the values in the **Size** field in the **Process Summary** (click inside the dialog to update the value).
 6. After verifying, click the **Process** button in the Process Summary dialog to export the selected images.

Open with an external application

When processing variants for output you can set Capture One via the Recipe to automatically open the processed files in another application. For example, this enables you to open JPEG, TIFF, PNG and PSD files in a browser such as Media Pro 2 for a final check, including the successful inclusion of contact information, keywords and other important metadata.

This option can also be used to pass, or "hand-off", processed files to other editors, such as Photoshop or Helicon Focus. For "round-tripping" files, consider using the Edit With option available from the File menu instead.

If you regularly use third-party applications consider creating a new Process Recipe dedicated to each.

1. Go to the Output inspector.
2. Select a recipe in the Process Recipes panel or create a new one especially.
3. Select the image settings required (e.g., TIFF 8-bit, Adobe RGB (1998), Res 300 ppi, Scale Fixed).
4. From the Basic Tab, go to **Open With** and select the chosen application from the menu. Once selected it will be displayed in the same field.
5. When the specific recipe is chosen the images will be processed and opened in the selected application.



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Output Location and Folder Naming

Set the destination location for output and create and name folders and sub-folders from the Process Recipe's File tab. Find out how the Recipe's File tab integrates with the separate Output Location and Naming tools.

- Overview of the workflow
- Select output location using the recipe
- Create folders from within the recipe
- Organizing images using tokens
- Selecting the destination location using output location tool
- Output recipes to multiple folders
- Naming or renaming variants
- Append image filename

Overview of the workflow

When preparing image variants for output using one or more process recipes, you have several tools at your disposal that can be used collectively to create and name folders, rename the variants, and select the output location.

When using a single built-in recipe, or when modifying it on an ad hoc basis, you can either specify the location with the Root Folder option from the File tab of the Process Recipe tool and create folders with or without using the dynamic locations feature via the Sub Folder option, or you can defer those choices to the Output Location tool.

When two or more recipes are selected, the Root Folder option should be left to defer the output location to the Output Location tool. Each of the Recipe File tab's Sub Folder option can be used to organize the resultant images into separate folders while still enabling access to the dynamic locations feature for additional organization and automatic folder generation.

As the location set using the recipe's Root Folder overrides the Output Location tool, it is good practice to leave it to defer to that tool anyway. Not only can it help avoid mistakes, but with the additional Sub Folder option in the Output Location tool the potential organizational benefits of the dynamic locations feature is greatly extended. While the Process Recipe tool (and all the options available under the various tabs) is very flexible, it is intended primarily to define individual recipes.

It is also recommended that the Output Naming tool is adopted to rename image variants. Although it is possible to use the File tab's Sub Name option to rename images (when the Sub Name token is used in the Format field of the Output Location tool), it is meant to be used to append image file names with labels, such as your company name, or color space, format, or resolution.

Select output location using the recipe

The Recipe's File tab has an option to specify the destination location for the processed variants, or, to simplify the process when more than one recipe is selected, defer to the Output Location tool instead. See below for more details.

1. Go to the Output Inspector.
2. Click on a recipe from the **Process Recipes** dialog to highlight it (i.e., highlighted with an orange or gray bar), or create a new recipe from specific settings and then select it by highlighting it.
3. Go to the **Process Recipe** panel immediately below, and select the **File** tab.
4. From the **Root Folder** fly-out menu, choose where to export the processed files for the selected recipe. Select from the following options:
 - o **Output Location** (default) - this defers the placement of processed image variants to the **Output Location** tool, see the section below for more details.
 - o **Image Folder** - this option returns the processed image files back



to the folder with the original unprocessed images.

- o **Select Folder...** - you can select an existing folder, or create a new folder, either locally or on an external drive, flash-disk or network drive. If you select the Desktop as the output location, be sure to create a new folder for the images from the resulting dialog, or add a folder in the **Sub Folder** option. See below for more information. Note, you can verify the folder location using the arrow-shaped icon, next to the fly-out menu.

Create folders from within the recipe

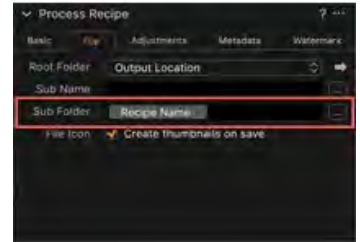
Simply adding a name in the Recipe's Sub-Folder field guarantees that the image created by the recipe will be organized into a folder when processed.

Adding a / or \ (macOS/Win) between names or tokens automatically creates sub folders. For example, adding Output/JPEGs in the Sub Folder field creates two folders, with your files in the folder called JPEGs, enclosed by another called Output.

Adopt Capture One's tokens to dynamically name folders based on metadata stored in the Library. This simplifies the organization of images and will dramatically improve your workflow. See below for more information.

Note if you're simultaneously processing your images using multiple recipes, for example, outputting your images as JPEGs for a quick proof and TIFFs for production, then it makes sense to use the recipe to create a sub folder and use the Output Location to determine the destination and use it to create the enclosing folder. See below for more information.

1. Select a destination from the **Root Folder** fly-out menu, as detailed above. If a folder is created in that step or the **Output Location** is selected, the folder or folders created in these steps become sub-folders.
2. In the **Sub Folder** field, add a name (e.g. TIFF Adobe RGB), or token (e.g. Recipe Format). To add a token click on the adjacent action icon (...) and select from the Process Recipe Sub Folder Tokens dialog. This will automatically create a folder or sub folder.



Organizing images using tokens

Capture One's folder and naming token system can be used to create meaningful hierarchical folders using a feature called Dynamic Locations. Using this, you can leverage Capture One's database functionality to access a wide range of folder and image data to assist you in managing and organizing images when processing.

Capture One's Dynamic Locations feature can be optimized at the time of importing images, when the initial folder structure can be created, named and other information recorded. However, as an integral component of Capture One's Library, the Dynamic Locations feature is sufficiently powerful to organize images when preparing files for processing, based on practically any existing storage strategy.

At every step from import through output, Capture One's Library feature keeps track of the location and every change made to your images and their folders. That includes every time you create and name new Catalogs, Sessions, Collection (Folders and Albums), and tag and rate images, or assign color profiles and file formats for processing.

Adopting Capture One's Location Sub Folder Tokens is the key to unlocking that power. Specifying Location Tokens when processing allows Capture One to automatically sort images into a logical structure of folders and sub-folders and to assign meaningful names to those folders.

There are a wide range of location tokens to be used when organizing image variants and naming folders for processing, those of particular importance include:

- **Document Name** (Session or Catalog name)
- **Collection Name** (Album, Smart Album, Folder Collection containing the images selected for processing)
- **Image Folder Name** (Adopts the directory name that the file is located in, or the Document Name when stored inside Catalog)
- **Destination Folder Name** (Name of the folder used for location of the output files)
- **Session Sub Path Long** (Session Folder and Sub-folder names to image i.e., Selects, Output, and sub folders etc)
- **Session Sub Path** (Sub folders minus Session Folders such as Selects, Output, etc.)
- **Job Name** (Job name used in the importer dialog)
- **Original Name** (Original image file name)
- **Capture Custom Name** (Name used in the Next Capture Naming tool)
- **Camera Counter** (Adopts the camera's counter readout, if available)

- **Image/Current Date (MMM dd yyyy)** (Folder name by capture or current date)

Selecting the destination location using output location tool

When the Output Location option is selected from the Root Folder fly-out menu of the Process Recipe tool, the destination location for processed variants is determined by the Output Location tool.

When processing one recipe, you can use the Output Location tool for creating and naming folders instead of the File tab. This avoids repetitive editing of the recipe and reduces the likelihood of making mistakes.

When two or more recipes are selected to process the same image using different settings, the Process Recipe's File tab Sub Folder field can be used to create a sub-folder for each recipe (e.g., JPEGs in one folder, TIFFs to another), and then you can use the Output Location tool to output those folders to the same destination folder.

1. Go to the Output Inspector.
2. Select a recipe in the **Process Recipes** panel (i.e., the recipe is highlighted with an orange or gray bar).
3. From the **Process Recipe**, select the **File** tab .
4. Select the **Root Folder** fly-out menu, and choose **Output Location** from the list.
5. Go to the **Output Location** tool.
6. From the **Destination** menu, select from one of the following:
 - **Choose Folder...** and either, select an existing folder and click on **Set as Output Folder**, or create a new folder from the dialog. If you select the Desktop as the output location from the dialog, be sure to have either, created a folder earlier in the **File Tab**'s Sub Folder text field, or create one in the following step.
 - **Output** (Sessions only) - this option returns the processed variants to the Session Output Folder.
7. As an option to add a parent or enclosing folder (or sub folder, if you've already created one in step 6) in the Output Location's **Sub Folder** field, select either a token from the naming dialog accessed via the adjacent icon, or type in a name.
8. Repeat steps 2 through 4 for each required recipe.
9. Check mark the required recipes in the **Process Recipes** panel. (If all of the recipes' settings have been selected under the various Process Recipe tabs, the variants are now ready to be processed and exported.)
10. Select **Process** in the **Process Summary** tool.



Output recipes to multiple folders

When deferring the choice of the recipe's destination folder to the Output Location tool, you can simultaneously process an image using multiple recipes into individual sub-folders within a single enclosing folder.

In addition, the use of Capture One's dynamic tokens in the Output Location tool's **Sub Folder** field can dynamically create and name the folders based on certain metadata and the recipe will populate those folders with the appropriate images, greatly improving your workflow.

For example, if you routinely supply low-res sRGB JPEGs for proofing and full-res Adobe RGB (1998) 16-bit TIFFs, simply select or create a recipe for each, then in each one, defer the Root Folder to the Output Location tool, and add the Recipe Format token in the File tab's Sub Folder option.

1. Go to the Output Inspector.
2. Highlight a recipe from the Process Recipes dialog (i.e., the recipe is highlighted with an orange or gray bar), or create a new recipe and then select it by highlighting it.
3. Select the **File** tab in the Process Recipe tool.
4. From the **Root Folder** fly-out menu, select (or verify) **Output Location** from the list.
5. Go to the **Output Location** tool and select and name the enclosing destination folder. See above for more details.
6. In the **Sub Folder** field, add a name for the folder (e.g., TIFF Adobe RGB), or use a token (e.g., Recipe Format). Add a token by clicking on the adjacent action button (... icon) and select from the Process Recipe Sub Folder Tokens dialog. This will automatically create and name a sub-folder during processing.
7. Repeat steps 2 to 7 (omitting step 5) to add other Process Recipes.
8. Check mark the desired recipes in the Process Recipes dialog.
9. From the **Process Summary** dialog, press **Process**. The different files can be found in the corresponding sub-folders within the output destination folder.

Naming or renaming variants

Capture One's Output Naming tool provides a wide range of options for renaming variants. The adoption of naming tokens leverages the metadata stored in the library which can be used to dynamically generate names. And, more than one can be used together.

For example, using a combination of Document Name, Creator and Counter tokens will automatically rename the files based on the Session or Catalog name, the creator's name used in the IPTC-Contact field for the selected images, and number them individually. If more than one creator's name is encountered, the image will be dynamically attributed.

Although naming is independent of the process recipe, when two or more recipes are selected, and the exported image variants share the same destination folder, then they will be differentiated by a numerical value.

1. Go to the Output Inspector.
2. From the **Output Naming** tool, enter a name directly in the **Format** text field. Or, select the Naming Format dialog by clicking on the Format action menu (...) icon, and make a selection from the tokens or presets available. A mixture of names and tokens (including counters) can be used. Note to return to the original file name insert the Image Name token. This is the default setting for the tool.
3. When a counter token is selected, you can alter the value at which the counter starts along with the increment. You can also reset it. Click on the action menu (...), in the Output Naming tool and make the selection from the relevant options.
4. To append the image name with a custom name, enter it directly in the **Job Name** field. Note the Job Name token must be added to the **Format** field for the name to be applied. You can use underscore (_) to separate the token from the name, if desired.
5. Verify the file name and format in the **Sample** field.



Append image filename

As an option you can append image file names when processing, and if you use a token, the appended name will be created dynamically based on specific metadata.

As the option is included in the recipe's instructions it can be used to add a reference to each image by file type, such as the color space or image resolution (PPI). Alternatively, you can use the same wording or token in each recipe used so that there's a consistent reference.

For example, if you want to append your name to every image filename, simply add the Creator token to any other wording or tokens already added to the recipe. Look for the Recipe File tab's Sub Name field to make your choice.

Other useful dynamic tokens include Camera Serial (number), Collection Name, Headline, Description, Document (Catalog/Session) Name, and various date options.

When using tokens that refer to certain metadata entries such as IPTC data, make sure there's an entry in the relevant field in the Metadata tool, otherwise the **EmptyName** warning will be displayed in the Sample field of the Token dialog window.

Remember to include the Sub Name token in the Output Naming tool for the file name to be appended.

1. Go to the Output inspector.
2. Highlight a recipe from the **Process Recipes** panel (i.e., the recipe is highlighted with an orange or gray bar), or create a new recipe and then select it by highlighting it.
3. Select the **File** tab in the **Process Recipe** panel.
4. From the **Root Folder** fly-out menu, select (or verify) **Output Location**



from the list. (Optional when processing a single recipe).

5. Select the destination folder from the **Output Location** tool, see above for more details.
6. In the **Sub Name** field add a name, or one or more tokens as necessary (e.g., Creator) from the Process Recipe Sub Name Tokens dialog. Note the **Sub Name token** must be added to other names or tokens in the **Output Naming** tool's **Format** field for it to be included.

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Managing Sharpening and Cropping

When preparing images for processing and output from the Process Recipe's Adjustments tab, you can apply sharpening based on the intended output device, or disable sharpening completely. You can also choose to include any cropping made during editing.

- Overview of output sharpening
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Overview of output sharpening

As the third and final stage of a three-part sharpening workflow, Capture One Pro can add sharpening to image variants on output, based on the intended device: Print (inkjet or repro) or Screen (web or email).

Print sharpening relies on several factors, including the print size and resolution, viewing distance, and even the type of printer and paper. Therefore, the output sharpening for print tool differs slightly from the screen sharpening option. It offers the expected amount and threshold sliders, as well as a tool that allows you to set the viewing distance to calculate the radius. This tool is particularly useful when you know the distance that the print will be viewed from (e.g., when displaying prints in an exhibition or gallery). However, if you prefer, you can also use the tool to set the radius based on the diagonal dimension of the print. As a rule, this can be set at either 100% or 150%.

When selecting the Output Sharpening for Screen option, the tab's tools will change to replicate those found in the Sharpening tool under the Details Tool Tab and includes sliders for amount, radius, and threshold. Each slider works in the same way.

Whether you are applying sharpening for print or screen, adjustments should be made after selecting the image variant's size and resolution and with the recipe proofing option enabled. Note Capture One ships with recipes for an A3 300dpi print-ready TIFF and 1600px wide sRGB JPEG, complete with suggested sharpening settings.

Applying sharpening for printing

When preparing an image variant for printing, you will inevitably have to apply additional sharpening over what would normally look sharp on-screen (i.e., after input and creative sharpening). When making adjustments, it is essential to specify the image variant's dimensions and resolution under the Basic tab and to soft proof using the proof recipe option.

1. Select the image variant or variants in the browser.
2. Highlight the recipe to edit from the list in the **Process Recipes** dialog (or create a new recipe), located under the Output Tool tab.
3. From the **Basic** tab, set the image size using the **Resolution/Scale** options as desired.
4. Enable **Recipe Proofing**, and set the viewer magnification to 100% initially.
5. Go to the Adjustments tab in the **Process Recipe** tool.
6. From the Sharpening fly-out menu, select **Output Sharpening for Print**.
The tab's tools will change and include sliders for Amount, Radius, and options for Distance.
7. Specify the viewing distance, if known, and click on the **Distance** fly-out menu to select units (inches or centimeters), otherwise select **% of Diagonal** and, as a general rule, select 100% or 150%.
8. Set threshold first and increase if noise is visible. Then adjust the amount using the slider or the up/down arrow keys, while looking at the effects on-



screen (while soft-proofing) at 100% and then at 50%. When halo artifacts or aliasing become visible or distracting, lower the amount and/or threshold in small steps until they're acceptable.

9. The settings are automatically saved so they can be used again. However, it is recommended that the settings are saved as a component of a new recipe, so that they're less likely to be accidentally overwritten.

Applying screen sharpening (web)

After applying capture sharpening and creative sharpening, the on-screen image will typically look sharp. However, you can use the output sharpening for screen option to counteract any softening effects caused by downsizing images for the web or email.

1. Select the image variant or variants in the browser.
2. Highlight the recipe to edit from the list in the **Process Recipes** dialog (or create a new recipe), located under the Output Tool Tab.
3. From the **Basic** tab, set the image size using the **Resolution/Scale** options as desired.
4. Enable **Recipe Proofing**.
5. Go to the Adjustments tab in the **Process Recipe** tool.
6. From the **Sharpening** fly-out menu, select **Output Sharpening for Screen**.
7. The tab's tools will change to replicate those found under Details Tool Tab and include sliders for **Amount**, **Radius**, and **Threshold**.
8. Adjust the sliders or specify the value and evaluate the effects on-screen (while soft-proofing) at 100%. Set the radius and threshold if necessary, then adjust the amount. When halo artifacts or aliasing become visible or distracting, lower the radius, and/or amount if necessary until they're acceptable.
9. The settings are automatically saved so they can be used again, however, it is recommended that they are saved as a component of a new recipe, so that they are not overwritten accidentally.



Apply capture and creative sharpening only

Select the Disable Output Sharpening option, when you want to leave any capture sharpening and creative sharpening applied to the variant in place.

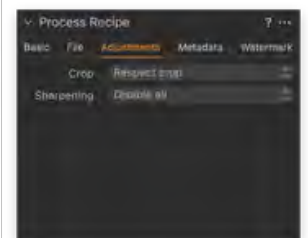
1. Select the image variant or variants in the browser.
2. Highlight the recipe to edit from the list in the Process Recipes dialog (or create a new recipe), located under the Output Tool Tab.
3. Select the **Adjustments** tab in the **Process Recipe** tool.
4. From the Sharpening fly-out menu, select **No Output Sharpening**.
5. When you need to apply the same setting to similar images, this option can be saved as a component of a new recipe.



Disable sharpening

When a client or printing service would prefer to add their own sharpening settings to your images, you can remove any sharpening previously applied in Capture One from your JPEG, PSD or TIFF files on export. Note, this setting disables diffraction correction, lens falloff and selective sharpening applied as a local adjustment, however clarity applied to the variant is not disabled.

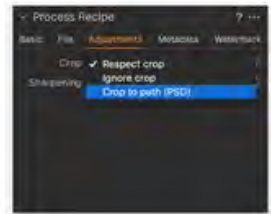
1. Go to the Output Tool Tab.
2. Select the Adjustments tab in the Process Recipe tool.
3. From the Sharpening fly-out menu, select **Disable All**.



Adding or removing any cropping

When preparing variants for output, Capture One allows you to choose if you would like any previously applied cropping to be included in the processing instructions.

Besides being convenient for temporarily removing the crop without either permanently deleting it, or creating another variant, this feature is especially



useful when submitting the same image with and without any previously made cropping applied. To do so, you simply create two identical Process Recipes, differing only in the option to ignore or respect the crop.

If you intend to supply a PSD file, Capture One allows you to process a variant with the crop-selection as a path that can be edited later in Photoshop. Note this is only available for variants to be processed as a PSD file, and that format must be selected in the recipe first, otherwise the option will be grayed out.

1. Go to the Output Tool tab.
2. Select the **Adjustments** tab in the **Process Recipe** tool.
3. From the **Crop** drop-down menu, select from the following:
 - o **Respect crop**, to include any previously applied cropping
 - o **Ignore crop**, to disregard any cropping to the image
 - o **Export to path (PSD)**, to include a path during output (PSD file only)
4. Selecting the option will automatically save the choice to the recipe.

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PHASEONE

what the world's best photography is made of

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Managing Keywords and other Metadata

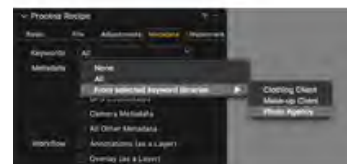
The Process Recipe's Metadata tab is used to manage keywords, ratings and color tags, and other metadata such as copyright information, GPS and EXIF data. It can also be used to manage annotations and overlays.

- [Managing keywords](#)
- [Specifying metadata](#)
- [Managing annotations](#)
- [Including an overlay](#)

Managing keywords

When exporting images, Capture One will include any assigned keywords from shared keyword libraries by default. However, you can select specific keyword libraries to assign to images during output. This is particularly useful when you have a controlled vocabulary for a particular use, for example, a certain client, news agency or stock library.

1. Select the appropriate recipe form the **Process Recipes** list. The recipe is then highlighted in orange. (Note that if multiple recipes are to be used for output, the following selection will have to be made for each recipe).
2. From the **Process Recipe** tool located under the list, select the **Metadata** tab.
3. Click-on the **Keywords** fly-out menu and select from the following:
 - o **None** - to exclude keywords from the image
 - o **All** - to include all the tagged keywords to the image
 - o **From Selected keyword libraries** - to include all the keywords from the chosen library, where previously set-up. (Only shared libraries can be chosen.)
4. Selecting the option will automatically save the choice to the recipe.



Specifying metadata

Capture One has the option of removing specific metadata from image variants during output. Like other recipe settings, specifying or controlling metadata is an integral part of each process recipe. You can choose to include or remove the following, as necessary: Rating and Color Tag, Copyright, GPS Coordinates, Camera Metadata (EXIF), and All other metadata (IPTC). When reset to the default setting, with the exception of Ratings and Color Tags, all the metadata in the images will be included for processing.

1. Go to the Output inspector.
2. Select the **Metadata** tab in the **Process Recipe** tool.
3. Un-check the relevant boxes to remove any metadata associated with the image variants selected for processing and output.
4. Selecting the option will automatically save the choice to the recipe.



Managing annotations

Annotations added to images, such as line drawings or sketches to aid retouching, for example, can be either included or excluded from processing when preparing variants for output. When a variant is to be processed using the PSD file format (chosen from the Process Recipe Basic tab) and annotations are included, they're rendered as individual objects in a layer that can be edited in Photoshop. For more information on adding annotations and

the Annotations editing tool, please see [here](#).

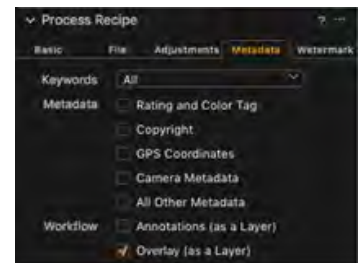
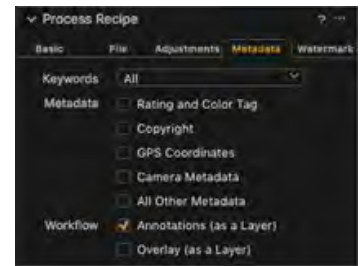
1. Select the appropriate recipe from the **Process Recipes** list. The recipe is then highlighted in orange, or silver when focus has moved. (Note that when multiple recipes are to be selected for processing, the following selection will have to be made for each recipe in-turn).
2. From the **Process Recipe** panel (located under the Process Recipes list), select the **Metadata** tab.
3. Under **Workflow**, deselect the **Annotations** checkbox to exclude the retouch notes or sketches from processed images. When selected, the annotations will be rendered as part of the image. When the variant is to be processed as a PSD, the annotations are included as individual objects in a separate layer that can be edited in Photoshop.
4. Selecting the option will automatically save the choice to the recipe.

Including an overlay

An overlay superimposed on images during tethered capture, or retrospectively, using the Overlay tool to aid composition can be included during processing. A previously prepared transparency file (e.g., a PNG saved with a transparent background) can be rendered as part of the image for proofing purposes, or when processed as a PSD file, included as a separate layer. This is a useful option when you want to share both the image and layout as a guide with the production team, for example. For more information on adding an overlay and the Overlay tool, please see [here](#).

1. Select the appropriate recipe from the **Process Recipes** list. The recipe is then highlighted in orange, or silver when focus has moved. (Note that when multiple recipes are to be selected for processing, the following selection will have to be made for each recipe in-turn).
2. From the **Process Recipe** panel (located under the Process Recipes list), select the **Metadata** tab.
3. Under **Workflow**, deselect the **Overlay** checkbox to exclude the transparency file from processed images. When selected, the overlay is rendered as a part of the image. When the variant is processed as a PSD, the transparency file is included as an individual object in a layer that can be edited later in Photoshop.
4. Selecting the option will automatically save the choice to the recipe

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Watermarking^{Pro}

Find out how to add a watermark to variants when processing as JPEG, TIFF, PSD, or PNG, using the Process Recipe's Watermark tool.

- [An overview of watermarking](#)
- [Adding a text-based watermark](#)
- [Adding a graphics-based watermark](#)
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- [Selecting a preset](#)
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An overview of watermarking

Capture One Pro enables you to add a watermark to variants when processing variants as JPEG, TIFF, PSD or PNG files to protect your copyright and deter others from unauthorized use of your images. Note watermarking is not available when processing variants as DNG files.

The Process Recipes tool allows the option to create a watermark using the system's fonts, certain tokens, or to import a ready-made graphics file or image with a transparent background.

Capture One is compatible with all common graphics and image file formats that support transparency for use as a watermark. When the PSD file format is selected from the recipe's Basic tab, the watermark will be included automatically as a separate layer, allowing it to be edited further in Photoshop.



Adding a text-based watermark^{Pro}

In addition to adding your own text, Capture One allows you to use tokens when creating a watermark on images. This option greatly simplifies the task of adding a high-quality, text-based watermark to images during processing. Tokens leverage Capture One's access to EXIF data as well as Catalog and Session naming paths for naming watermarks, and can therefore be used to dynamically vary the text used.

For example, when the photographer's name has been added to the **Creator** field in the IPTC - Contact section, choosing the Creator token will automatically add that name to the watermark, saving you from typing the name in yourself. What's more, if there are images from multiple photographers in the selection, Capture One will dynamically change the watermark according to the name (in the IPTC Creator field). Note, if the selected token refers to a field that's currently empty, the warning **Empty Name** will be displayed in place of the watermark.



1. Go to the Output Tool Tab.
2. Choose the **Watermark** tab in the **Process Recipe** tool.
3. Select **Text** from the **Kind** drop-down menu, and choose from the following:
 - Enter the text required for the watermark in the Text field, or ...
 - Click on the adjacent Text Action menu (...) icon to open the Watermark Tokens manager dialog box. Select a token or collection of tokens from the list displayed, from the Group or Presets drop-down menus, or add a combination of text and tokens, as desired, and select OK.

The watermark will be visible on the image in the Viewer.

4. Click on the **Font** Action menu button (... icon) to adjust the font and color of the text.
5. Adjust **Opacity** and **Scale** sliders to the desired level.
6. Adjust the placement of the watermark using the **Horizontal** and **Vertical** sliders, or by clicking on the hand cursor tool (H) (hand icon).
7. Once the watermark is created, it will be saved as part of the recipe highlighted in the Process Recipes tool so it can be reused whenever it is required. Alternatively, save it as a new recipe. Multiple sizes may be necessary, depending on the output image-dimensions.

Adding a graphics-based watermark ^{Pro}

Before using this feature, it is necessary to create a graphics- or image-based watermark first. Capture One supports all common image file formats with a transparent background for use as a watermark, such as PSD, PNG, TIFF, GIF and PDF. In addition, Windows users can also use BMP files.

1. Go to the Output inspector.
2. Choose the **Watermark** tab in the **Process Recipe** tool.
3. From the **Kind** drop-down menu, select **Image**.
4. Drag and drop a pre-prepared image file with a transparent background in the **Drop image here** field in the tool, or browse for the file by clicking on the File Action menu (...) icon, below right of the Drop image here field.
5. Adjust **Opacity** and **Scale** sliders to the desired level.
6. Adjust the placement of the watermark using the **Horizontal** and **Vertical** sliders or by selecting the hand cursor tool (H).
7. Once the watermark is created, save it as part of a process recipe using the **Process Recipes** tool so it can be reused whenever it is required. Multiple sizes may be necessary, depending on the output dimensions.



Creating a user preset

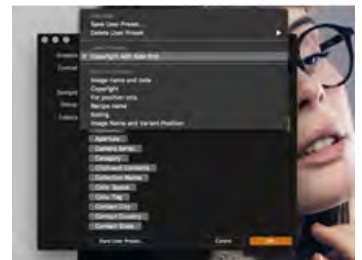
Capture One can save a text-based watermark as a User Preset.

1. Go to the Output Tool Tab.
2. Choose the **Watermark** tab in the Process Recipe tool.
3. Select **Text** from the **Kind** drop-down menu.
4. Click on the adjacent Action menu (...) icon. The **Watermark Tokens** manager dialog box opens.
5. Select a token or collection of tokens from the list displayed, from the **Group** drop-down menu, or add a combination of text and tokens, as desired.
6. Go to **Presets** and click in the text field. The **Manage Presets** menu opens.
7. Select **Save User Preset...** A save window opens.
8. Give the preset a relevant name and click **Save**.



Selecting a preset

1. Go to the Output Tool Tab.
2. Choose the **Watermark** tab in the Process Recipe tool.
3. Select **Text** from the **Kind** drop-down menu.
4. Click on the adjacent Action menu (...) icon. The **Watermark Tokens** manager dialog box opens.
5. Go to **Presets** and click in the text field. The **Manage Presets** menu opens.
6. Select the preset from the **User Presets** or **Built-in Presets** folder, as appropriate. The preset's contents will be added to **Format** field.
7. Verify and add any other text/tokens as required and select **OK**. The contents of the **Format** field will be added to the **Text** field in the Watermark tool and displayed on the image in the Viewer.



Deleting a user preset

1. Go to the Output Tool Tab.
2. Choose the **Watermark** tab in the Process Recipe tool.
3. Select **Text** from the **Kind** drop-down menu.
4. Click on the adjacent Action menu (...) icon. The **Watermark Tokens**

manager dialog box opens.

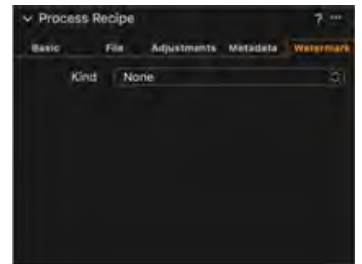
5. Go to **Presets** and click in the text field. The **Manage Presets** menu opens.
6. From the **Delete User Preset** folder, click-on the preset from the list. The Delete Token Name User Preset window opens ask to confirm the action.
7. Select OK or cancel, as appropriate.



Removing watermarks

You can remove any text- or graphics-based watermarks from images, by selecting to display None from the Kind drop-down menu.

1. Go to the Output inspector.
2. Select the Watermark tab in the Process Recipe panel.
3. From the **Kind** drop-down menu, select **None**. Images are cleared of any text- or graphics-based watermarks.



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Batch Queue and Processing History

Capture One automatically processes and outputs batches of photos, arranging them in a queue or line as computer resources dictate. A history or record of images that have been previously output is maintained, making it easy to find individual photos for reprocessing.

- [Edit the batch](#)
- [Process history](#)
- [Reprocess files \(history tab\)](#)

Edit the batch

1. Go to the [Batch Tool Tab](#).
2. Choose the **Queue** tab.
3. A batch of files can be changed and reordered. Simply drag and drop files to the desired order during processing.
4. Highlight a file(s) and press backspace (on your keyboard) to remove it from the Batch Queue at any time.
5. Press the **Stop** or **Start** button (at the bottom of the Batch Tool Tab) to stop or restart the queue at any time.



Process history

The Batch Tool Tab shows a history of all recent files that have been processed. When there is a need for further copies of these images, you can simply reprocess them.



Reprocess files (history tab)

1. Go to the [Batch Tool Tab](#).
2. Select the **History** tab.
3. Highlight any previously processed files and press the **Reprocess Selected** button.



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Publishing images^{Pro}

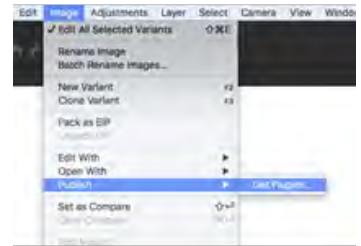
Capture One 12 introduces the concept of Plugins which enables you to publish your images directly to an online photo gallery solution or to social media.

How to publish an image^{Pro}

Ensure that you have installed a publishing plugin in Capture One 12. Please see the [Plugins](#) section on how to do this.

1. Select the image(s) that you want to publish.
2. Then select **Image > Publish > Plugin**.
3. You will now be presented with a number of adjustments options that are specific to the installed plugin. Please visit the plugin vendor's website for instructions on how to use these settings.

Note: If you have no publishing plugin installed yet, you will instead see the **Image > Publish > Get Plugins...** command which will take you to a Phase One webpage to select and download a plugin.





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Capture One > Output > Plugins



Plugins^{Pro}

Capture One 12 introduces the concept of Plugins which can greatly expand the possibilities to either edit or publish your images.

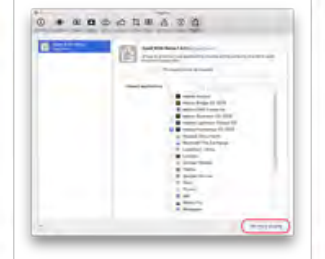
Introduction^{Pro}

Plugins comes in two main flavors: Plugins will enable you to publish images directly an online photo gallery solution or to social media, and plugins that will let you edit or open images with specialized image adjustments, like the Helicon Focus plugin.



Getting more plugins^{Pro}

In order to get new plugins, select **Capture One 12 > Preferences...** (**Edit > Preferences...** on Windows) and choose the **Plugins** tab. Then click on **Get more plugins** in the lower right corner, and you will be taken to a Phase One webpage where you can download any available plugin.



Install a plugin^{Pro}

There are a number of ways to install a plugin in Capture One 12 once you have downloaded it.

1. Double-clicking on the plugin.
2. Open **Preferences** and select the **Plugins** tab. Click the + button in the bottom left corner, then select the plugin in the file browser that pops up.
3. Open **Preferences** and select the **Plugins** tab. Drag the plugin into the list of plugins.

Capture One 12 will then copy the plugin to the Plug-ins subfolder under Capture One and install it. The plugin should now show up in the list on the left of the Plugin manager tab and be ready to use.




Change Plugin Settings^{Pro}


In order to change the settings for each plugin, select **Capture One 12 > Preferences...** (**Edit > Preferences...** on Windows) and choose the **Plugins** tab. Then select the install plugin from the list on the left and change the desired settings.

Note that the company offering the plugin has made specific settings that is tied to their plugin, so please visit their site for instructions on how to use them. You can disable an installed plugin by selected it and clicking on the **Disable** button if you want to turn its functionality off temporarily. Just click on **Enable** to turn it back on again.





Capture One 12 is shipping with one plugin from Phase One called **Open With Menu**. It allows you to exclude certain apps from the **Image > Edit With** menu list to keep things nicely organized.





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Capture One > Output > Web Gallery



Web Gallery^{Pro}

WEB CONTACT SHEET / JPEG

The Web Contact Sheet lets you showcase your work by creating web photo galleries.

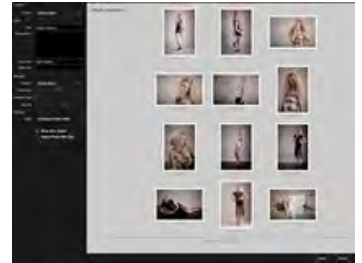
Introduction^{Pro}

Create a web gallery from a selection of flexible templates for impressive web based image presentations. You can insert a title, a text description and a copyright and set the image size and quality (N.B. Smaller size files are preferable when e-mailing to a client).



Create a web contact sheet^{Pro}

1. Select the desired thumbnail files in the [Browser](#).
2. Select File>Make Web Contact Sheet... The Web Contact Sheet module opens in a window on top of the Capture One window.
3. Select a **Theme**. (A Classic (Dark/Light) theme is similar to a contact sheet featuring thumbnails). In this example the Full screen (Dark) option has been selected.
4. Fill in any TEXT fields. (Title, Description, Copyright and Web-link).
5. Set the desired thumbnail, preview and quality size.
6. Select a **Path** folder in the Web Sheet Output tool.
7. Check mark the **Show after Export** if you want to see the gallery in your web browser.
8. Press the **Export** button in the bottom right corner.



Add an image caption^{Pro}

1. Select the desired thumbnail files in the [Browser](#).
2. Select File>Make Web Contact Sheet...
The Web Contact Sheet module opens in a window on top of the Capture One window.
3. Go to the **Images** tool and select one of the options from the **Caption** drop down menu.
4. Check mark the **Show after Export** if you want to see the gallery in your web browser.
5. Press the **Export** button in the bottom right corner.





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Printing Images

PRINT / PRINTING PHOTOS / PROCESS RECIPE / WEB CONTACT SHEET

Print selected images using customized print layouts with watermarks, annotations and color profiles.

- Print images
- Templates
- Manage custom print templates
- Units and guides
- Adjust the Layout
- Adjusting image settings
- Adding a caption
- Add or remove the file name
- Adding a text-based watermark
- Add an image watermark
- Change print page setup
- Change current printer
- Change image appearance

Print images

1. Select images to print in the [Browser](#).
2. Select File > Print to display the dialog box and print sheet.
3. Adjust the page layout using [Templates](#), Margins and [Layout](#) panels.
4. Adjust the image appearance using the [Caption](#), [Image Settings](#) and [Watermark](#) panels.
5. Use the Printer tool to adjust the Print Settings, Page Setup and the Resolution, Sharpening setting and a Color Profile.
6. Press the Print... button.
7. Choose additional layout options via the Print dialog box.
8. Finally, press Print. Images will be rendered in Capture One (with a progress indication) before they are sent to the printer.



Templates

Use a built-in template or create your own and save it for future use:

1. Select images to print in the [Browser](#).
2. Select File>Print to display the print sheet and dialog box.
3. Go to [Templates](#) tool and select one of the built-in options from the drop down menu that best fits your needs.
4. If there are no appropriate Built-in Templates, go to the [Layout](#) tool and adjust the sliders as desired.
5. Once you have the desired layout, you can save it for future use. Go to the [Templates](#) tool and select Save User Template...
6. Name the template and press Save.
7. This template can now be accessed via the [Template](#) drop down menu under the [User Templates](#) heading.



Manage custom print templates

1. Select File>Print to display the print sheet and dialog box.

2. Go to Templates tool and select Manage User Templates... from the drop down menu.
3. A dialog box will appear. Press the minus (-) button in the lower left corner to remove a highlighted template.
4. Double click on a template to rename it.
5. Press **Done** once finished.

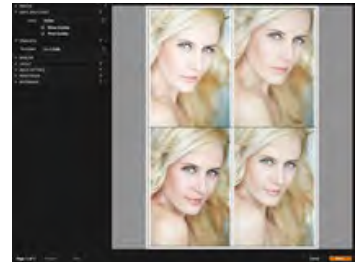


Units and guides

Change the units used in the Margins and Layout tools:

1. Go to the **Units and Guides** tool in the Print dialog box.
2. Select one of the five units of measurements from the **Units** drop down menu.

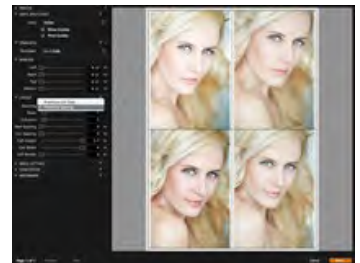
Note: Check mark the Show Guides option box to display the paper guides in the preview window.



Adjust the Layout

The **Prioritize Spacing** and **Prioritize Cell Size** options determine what action Capture One takes when users change Rows/Columns/Margins/Paper size etc.

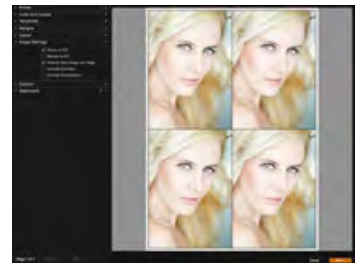
1. Go to the Layout tool in the Print dialog box.
2. Select **Prioritize Spacing** from the **Resizing** drop down menu the software will do its best not to change the spacing between the cells. (It will instead change the cell size).
3. Select **Prioritize Cell Size** from the **Resizing** drop down menu and the software will do its best not to change the cell width and height. (It will instead change the cell spacing).
4. Adjust the sliders in the Layout tool to get the desired layout.



Adjusting image settings

The Image Settings panel has several layout options, including choices to add overlays and annotations to the final print:

- **Zoom to Fill:** Use this option to get a postcard effect where all images are cropped to fill the paper.
- **Rotate to Fill:** This option ensures all images have the same layout and are rotated to fit the paper.
- **Repeat One Image per Page:** Each of the selected images will be repeated on one page according to the layout.
- **Include Overlays:** Enable this option to add any previously used overlays during printing. When enabled the overlay will be superimposed on the image displayed in the print preview window.
- **Include Annotations.** Any annotations added as scribbles or notes earlier in the workflow will be included for printing. When enabled any annotations will be displayed on the image in the print preview window. (Note images with annotations can be searched for using the Filters tool.)

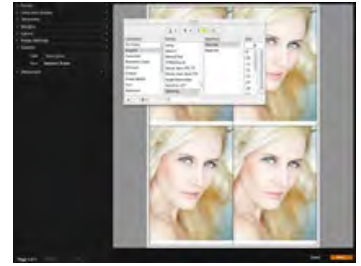


Adding a caption

When you've added a caption in the Description field of the metadata editor located in the Metadata inspector, you can add it to your print.

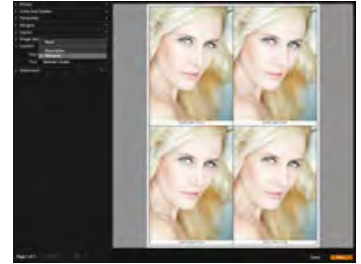
1. Go to the Metadata inspector and either, verify the existing caption, or add a new one in the **Description** field in the **IPTC - Content** section.
2. Select File > Print and go to the **Caption** panel in the Print dialog window.

3. Select **Description** from the **Type** drop down menu.
4. Press the **Font** button to alter the size and font of the caption to be added to your print.



Add or remove the file name

1. Select File > Print and go to the **Caption** panel in the Print dialog window.
2. Select **Filename** or **None** from the **Type** drop-down menu.
3. If **Filename** has been selected, press the **Font** button to alter the size and font.



Adding a text-based watermark

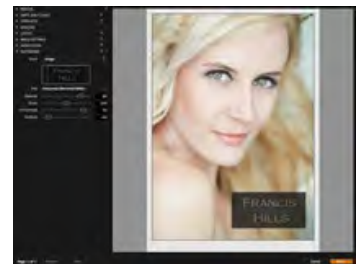
Capture One can add a high-quality text-based watermark to your printed images, using either your own text or tokens or a combination of the two.

1. Select File > Print and go to the **Watermark** tool in the Print dialog box.
2. Select **Text** from the Kind drop-down menu, and choose from the following:
 - o Enter the text required for the watermark in the **Text** field, or ...
 - o Click on the adjacent Action menu (...) icon to open the Watermark Tokens manager dialog box. Select a token or collection of tokens from the list displayed, from the Group drop-down menu, or add a combination of text and tokens, as desired, and select **OK**.
3. From the **Size** fly-out menu, select between Pixels or Points as a measure of the font size.
4. Click on the **Font** Action menu (...) icon to select the font type and color of the text.
5. Adjust the **Opacity**, **Scale**, **Horizontal** and **Vertical** sliders as desired.



Add an image watermark

1. Select File>Print and go to the **Watermark** tool in the Print dialog box.
2. Select **Image** from the **Kind** drop down menu.
3. Insert an image into the Overlay window by pressing the browse icon to select a relevant file or simply drag and drop a file into the specified area.
4. Adjust the Opacity, Scale, Horizontal and Vertical sliders as desired.



Change print page setup

1. Select File>Print and go to the **Printer** tool in the Print dialog box.
2. Press the Page Setup... button.
3. Change the page attributes and press OK.



Change current printer

1. Select File>Print and go to the **Printer** tool in the Print dialog box.
2. Press the **Print Settings...** button.
3. Change the page attributes and press OK.
4. Choose a different model in the Printer drop down menu (Mac) and press Save. (PC: Double click on the desired printer).



Change image appearance

1. Select File>Print and go to the **Printer** tool in the Print dialog box.
2. Adjust print Resolution and Sharpening.
3. Choose a Color profile from the drop down menu.
4. If a specific Color Profile is chosen, then also choose a rendering intent (Rend. Intent) option and the Black Point Compensation check mark option.



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Tools Appendix

This section describes the tools in Capture One and links from the application "?" tips in each tool. Click the Tool Name for more information

Adjustments Clipboard

The Adjustments clipboard controls how adjustments are transferred when copying and pasting adjustments between images.

View more information related to the [Adjustments Clipboard](#).



Annotations

The Annotations tool enables you to superimpose sketches and scribble some instructions on images, as a guide to retouching.

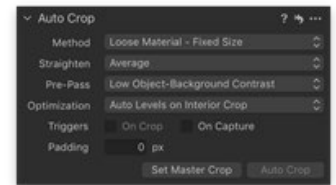
View more information related to the [Annotations tool](#).



Auto Crop

The Auto Crop tool enables automated cropping of images of flat materials, bound documents or roll film, either on capture or with an existing image. It is only available in Capture One Cultural Heritage.

View more information related to the [Auto Crop tool](#)

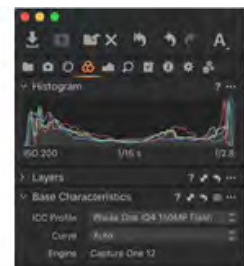


Base Characteristics

The starting point for RAW conversion. Use this tool to set the color profile and contrast curve for a RAW file.

View more information related to [Base Characteristics](#).

If you are using Capture One Cultural Heritage, the Base Characteristics tool have an additional Mode drop-down menu and specialized Cultural Heritage ICC Profiles. Read more about these [here](#).



Batch Processing

Batch controls the order of queued images waiting to be processed.

View more information related to [Batch](#).



Black and White

The Black and White tool allows you to adjust images without color data. All channels are grey scaled and the sliders allow you to adjust the luminance of the RGB and CMY hues to create contrast - much like Black and White film photography with filters.

View more information related to [Black and White](#).



Camera

Control the tethered camera attached to the computer. Set Aperture, Shutter, ISO and other properties from the Capture One interface.

View more information related to [Tethered Shooting](#).



Camera Settings

Any property sent by the camera will show in the Camera Settings list. Edit almost any camera setting from this list for quick and easy access to the Camera's hidden custom functions.

View more information related to [Tethered Shooting](#).



Camera Focus

This tool allows the user to adjust focus of the attached tethered Camera from the computer interface.

View more information related to [Camera Focus](#).

Note that Camera Focus tool in Capture One **CH** offers a specialized PPI Assist feature that will let you specify a target resolution after which the iXG camera will calculate how much it needs to be moved on the copy stand to achieve it. Read about the PPI Assist feature [here](#).



Capture Pilot

Capture Pilot allows remote review and rating of any collection via an Apple iPad or iPhone running the Capture Pilot app. Alternatively, web mode can be used to rate images using any browser enabled device (e.g. Android).

View more information related to [Capture Pilot](#).



Capture Resolution Ruler

The Capture Resolution Ruler can be used to confirm the resolution of images after capture, as well as when performing test shots using the composition mode. It is only available in Capture One Cultural Heritage.

View more information related to the [Capture Resolution Ruler](#) tool.



Clarity

Clarity can add punch to otherwise dull images. Choose from one of four methods to instantly add extra vibrancy to your pictures. Used negatively, it can reduce contrast for softer skin.

View more information related to [Clarity](#).



Color Balance

Color balance alters the color and luminance in Shadow, Mid-tones and Highlights for creative looks.

View more information related to [Color Balance](#).



Color Editor

Color editor interfaces with the camera ICC profile to subtly adjust colors in the target image. Options for this tool include export ICC profile and mask from color pick.

View more information related to [Color Editor](#).



Copy Stand

The Copy Stand tool can be used to automatically move the camera cart on a connected copy stand until a chosen target resolution is obtained.

View more information related to [Copy Stand](#)



Crop

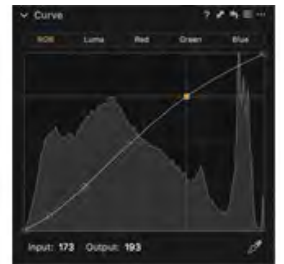
Crop an image to an alternative ratio to that Captured. Crop outside image allows vacant areas to be included in the image bounds (e.g., when using Keystone correction).

View more information related to the [Crop](#) tool.

Curve

Adjust the tonality of an image by altering the tone curve. Adjustments are available for RGB composite, R,G and B individually or for luminance.

View more information related to [Curves](#).



Exposure

Exposure tool can be used to correct Exposure error by up to 4 stops +/- from that taken. A gradual roll-off in the highlights protects against blown highlight detail when correcting under exposure.

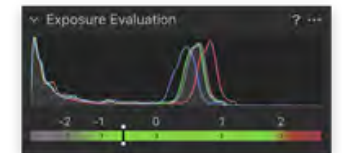
View more information related to [Exposure](#).



Exposure Evaluation

A fixed histogram of the RAW data with a curve applied (as set in the Base Characteristics tool). The meter underneath gives a rough guideline as to "good exposure" based on histogram spread and end points.

View more information related to [Exposure Evaluation](#).



External Editing

Choose the Edit With... option when you want Capture One to process and export a RAW file as a TIFF (or JPEG) for additional editing in third-party software, or choose Open With... when working with a previously processed TIFF (or JPEG) file.

View more information related to [External Editing](#).



Film Grain

A statistical model used to replicate film grains. Choose a grain type in combination with the impact (contrast) and granularity (size of grain) sliders to create a film grain effect.

View more information related to [Film Grain](#).



Filters

Enable a filter with the radio buttons to reduce the visible images in the collection by almost any property. More properties can be added from the contextual menu in the tool bar.

View more information related to [Filters](#).



Focus

Used in combination with the Pick Focus Point cursor tool, this is a small swatch rendered at 100% in the final output quality. It is used to quickly check key points of interest in an image for focus confirmation, without rendering the whole file.

View more information related to [Focus Checking](#).



High Dynamic Range

Improve the dynamic range of the image by using either Highlight or Shadow sliders to recover detail from RAW files. Best used individually to preserve a natural image, they can be used together for HDR imagery.

View more information related to [High Dynamic Range](#).



Histogram

A "final decision" distribution of tonal data (after color space conversion to the profile set in the recipe). Effectively this is what is Exported.

View more information related to the [Histogram](#).



Importer

The import tool consists of several smaller tools which control how photos are imported into the application.

View more information related to the Importer in [Sessions](#), or when working in a [Catalog](#).



Keystone

The Keystone tool offers four-way adjustment to correct images with converging vertices or skewed center.

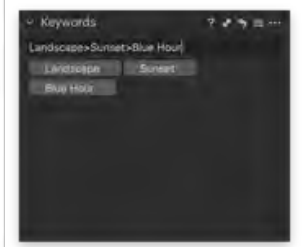
View more information related to the [Keystone](#) tool.



Keywords

Singular terms used to describe the content of an image. Words can also be hierarchical (words about words). Keywords form part of image meta data.

View more information related to [Keywords](#).



Keyword Library

Controls the list or lists of keywords in the document. Lists can be exported, imported, merged and edited.

View more information related to [Keyword Libraries](#).



LCC (Lens Cast Calibration)

Lens Cast Calibration is used to remove fall off and color cast in an image. The tool requires a calibration file which is generated by taking a second image of the scene, but with a perspex tile over the lens.

View more information related to [LCC](#).



Lens Correction

By selecting the appropriate lens model, distortion and chromatic aberration can be removed from images, thereby improving accuracy and sharpness.

View more information related to [Lens Correction](#).



Levels

Used to correct tonal values in an image. Contrast, gamma and output intensity are all controlled using the handles top and bottom of the tool.

View more information related to [Levels](#).



Library Tool

The Library tool gives access to file system and organizational elements of your work. The options available will depend on the document type (Session or Catalog).

View more information related to the [Library](#) tool.



Live View Controls

Control gain, quality and focus position during live view operation.

View more information related to [Live View](#).



Live View Focus Meter

Drop focus panels on to the live view feed to get a contrast feedback for the area in the panel.

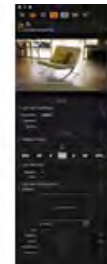
View more information related to [Live View](#).



Live View Info

Orientation info for Phase One backs.

View more information related to [Live View](#).



Live View Navigator

A thumbnail of the image with a box depicting the current zoom level. It is used to aid navigation when zoomed in during live view.

View more information related to [Live View](#).



Live View Overlay

Supports PNG, PDF and other image formats as an overlay bed for testing a layout (e.g., a magazine cover).

View more information related to [Overlay](#).



Layers

Mask areas of an image and then apply standard adjustments to only the masked area. Tools that work locally are indicated by a small brush in the corner of the tool's title-bar.

View more information related to [Layers](#) and local adjustments.



Metadata

Add terms, copyright information and view read-only EXIF data. Data can also be synced to XMP sidecar format.

View more information related to [Metadata](#).



Moiré

Digital capture of geometric patterns or texture (like fabrics) can often result in odd patterns in the image file. Use the Moiré tool to suppress the patterning by adjusting amount and pattern in equal amounts until the patterning is removed. Best used in conjunction with local adjustments.

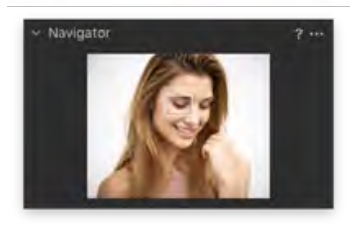
View more information related to [Moiré](#).



Navigator

A thumbnail of the image with a box depicting the current zoom level. It is used to aid image navigation when zoomed-in.

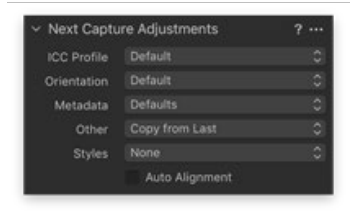
View more information related to the [Navigator](#).



Next Capture Adjustments

Determines how adjustments are applied in a tethered workflow.

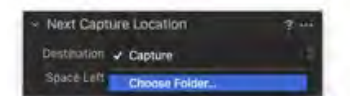
View more information related to [Next Capture Adjustments](#).



Next Capture Location

Used to set the destination folder in a tethered workflow. Session users can also choose a folder in the Library and the **Set as Capture** option from the file menu or right click menu.

View more information related to the Capture Location in [Sessions](#), or when working in [Catalogs](#).



Next Capture Naming

Set the naming structure for images in a tethered workflow. The naming structure can be derived from text or Tokens, or a combination of both.

View more information related to [Next Capture Naming](#).



Noise Reduction

The tool adopts sliders for suppressing luma, color and single pixel noise.

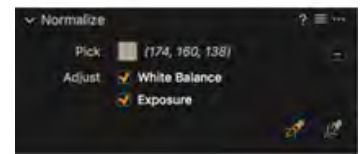
View more information related to [Noise Reduction](#).



Normalize tool

Capture One's Normalize tool can be used to bring a corresponding change in exposure and white balance in a selected area to match that of a reference value or "Target" area.

View more information related to [Normalization](#).



Output Location

Set the location for processing destination. Session users can also choose a folder in the Library and select the Set as Output Folder option from the file menu or contextual (right-click) menu.

View more information related to [Output Location](#).



Output Naming

Changes the naming for the output file. Default is the name of the parent RAW file. Uses text or Tokens, or a combination of both for name structure.

View more information related to [Output Naming](#).



Overlay

Compatible with PNG, PDF and other popular file formats that support a transparent background layer as an overlay bed for testing a layout (e.g., a magazine cover). Drag drop the file to the overlay window for compositing workflow.

View more information related to the [Overlay](#) tool.



Print - Printer

Choose a printer and color management options.

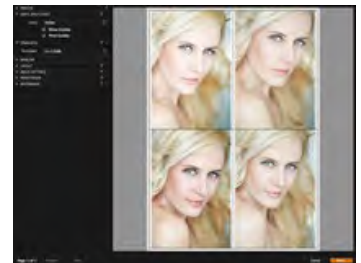
View more information related to [Print](#).



Print - Units and Guides

Unit and guide options for the print dialogs.

View more information related to [Print](#).



Print - Templates

Choose saved layout options.

View more information related to [Print](#).



Print - Margin

Choose saved layout options.

View more information related to [Print](#).



Print - Layout

Set the cell size, columns, rows, and padding for contact sheets.

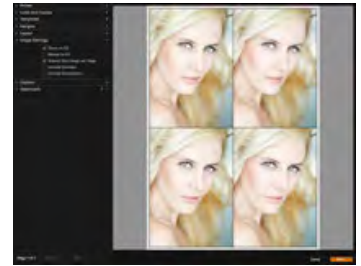
View more information related to [Print](#).



Print - Image Settings

Set fill options for the set paper size.

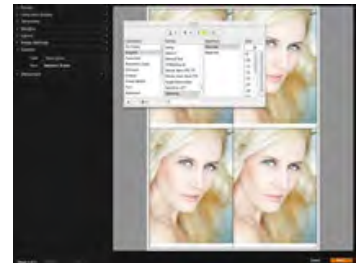
View more information related to [Print](#).



Print - Caption

Set the text under each image in the contact sheet.

View more information related to [Print](#).



Print - Watermark

Set a watermark in the print.

View more information related to [Print](#).



Process Recipe

Configures the file type, resolution and color space for output for the chosen Recipe.

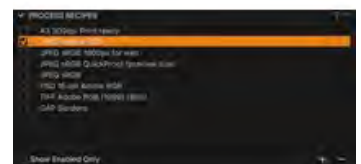
View more information related to [Process Recipe](#).



Process Recipe

User defined output presets. Each recipe can derive a file type, resolution, color space and destination for the processed file.

View more information related to [Process Recipes](#).



Process Summary

Gives a preview of the Recipe configuration. Any red elements here indicate something is wrong with the recipe.

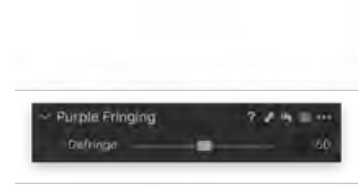
View more information related to [Process Summary](#).



Purple Fringing

Typically high-contrast scenes shot with a wide-open aperture can exhibit blue halos around edges of contrast. Use this slider to dial in the suppression and remove the unwanted fringing.

View more information related to [Purple Fringing](#).



Rotation and Flip

Orientation sets the image in 90 degree increments either left or right. Rotation sets the remainder between those increments. Flip allows the variant to be mirrored either horizontally or vertically (useful for compositing).

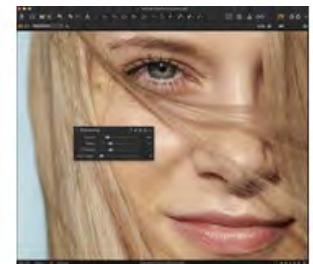
View more information related to [Rotation and Flip](#).



Sharpening

Adjusts the contrast of edges in an image to improve acuity. Amount sets the contrast in an edge, Radius determines the width of that edge and Threshold sets the minimum contrast between pixels before applying the amount.

View more information related to [Sharpening](#).



Spot Removal

Define the blemish - dust or spot - and apply the ring-shaped cursor to remove it from an image.

View more information related to [Spot Removal](#).



Styles and Presets

Saved elements for tools. Presets are saved on a tool-by-tool basis, whereas a style is combination of tool presets.

View more information related to [Styles and Presets](#).

Capture One **Cultural Heritage** offers additional built-in Styles crafted specifically for Film Scanning. Read about those [here](#).



Vignetting

A creative option for fall-off (positive or negative). Follows the crop bounds.

View more information related to [Vignetting](#).

Web Contact Sheet - Images

Create an interactive contact sheet for hosting on the internet.

View more information related to [Web Contact Sheet](#).



Web Contact Sheet - Layout

Choose a layout for an interactive contact sheet for hosting on the internet.

View more information related to [Web Contact Sheet](#).



Web Contact Sheet - Output

Choose a location for the creation of an interactive contact sheet for hosting on the internet.

View more information related to [Web Contact Sheet](#).



Web Contact Sheet - Text

Add a Title, Description, Copyright Info and a Web Link to the Web Gallery.

View more information related to [Web Contact Sheet](#).



White Balance

Sets a point in the image as neutral to which all other color is based. For best results, take an image with an 18% grey card in the scene, and balance from the patch.

View more information related to [White Balance](#).



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LAB Readouts in Capture One Pro

This is a technical guide to the Lab color space implemented in Capture One Pro. Lab values are widely quoted by manufacturers of color charts, and used by a number of third-party image analysis applications.

Capture One Pro can display color values in the Lab color space. This feature is provided with the intention of using it for the comparison and measurement of color using a reflectance target or color chart, such as the ColorChecker SG or ISA GoldenThread target, when used for flat art reproduction. However, it may also be used for other types of photography where colors are to be matched using a similar method. This guide serves only to highlight the limitations of measuring colors and to mitigate issues that have a demonstrable effect on the readout values.

The Capture Process

This section highlights some of the pitfalls encountered during the capture process, both during profiling and reproduction.

Lab Coordinates in a Processed Image

The process of conversion from RGB to the Lab color space is determined by the profile in use. However, when using different color engines, there is some discrepancy in the way the data is translated.

Standard RGB Color Spaces

This section looks at the relative merits, as well as some of the shortcomings, of popular standard RGB color space profiles.

Matching Lab Conversion to Third Party Software

Capture One Pro offers several Lab implementations to match the different interpretations of RGB profiles by third-party applications.

Message Codes

The Lab readout feature in Capture One Pro supports the most common and useful versions of profiles, however it will warn when a profile can be interpreted in more than one-way.

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[Capture One](#) > [LAB Readouts](#) > The Capture Process

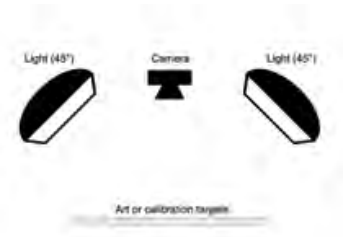
The Capture Process

This section highlights some of the pitfalls encountered during the capture process, both during profiling and reproduction.

- [Overview](#)
- [Lab and CIE XYZ color spaces](#)
- [Standard observer](#)
- [Light source](#)
- [Metamerism](#)

Overview

A common method used to assess color in an image is to photograph a reference reflectance target (i.e., a color chart) that includes a set of color patches with specified characteristics and reference color values. The target is usually photographed at the beginning and at the end of the session, but it can also be included within each image. The intention is to calibrate the colors in the image so that they explicitly represent the original object being photographed.



In Capture One, the accuracy of the colors in the image is assessed by processing and comparing the measured color values using the readouts feature with the reference values for those patches.

Before measurement begins, it is necessary to adopt a color profile representing the capture set-up, or otherwise change the processing parameters, to ensure the processed image of the target is near to the stated reference. In many cases, the reference is specified in the CIE 1976 (L^* , a^* , b^*) color space, often referred to as CIELAB, or more simply LAB, or just "Lab".

For critical comparison, the capture process typically requires an accurate color profile to be adopted, either one created in-situ or a bespoke profile that includes the specific camera and illuminant (i.e., light source) for the set-up. Besides taking into account the color temperature, measurement of the illuminant or light source must also include the geometry of the set-up (usually D50 at 45-degree angle of illumination), and the average human color vision (an observer model, usually the CIE 1931 2-degree Standard Observer). This device profile, and the one used during output for further analysis in third-party software, typically adopts an RGB color space.

Before looking at the challenges encountered when converting RGB to Lab, at least when validation or further analysis is required in third-party apps, let's look at some of the practical implications of adopting Lab as a reference color space.

Lab and CIE XYZ color spaces

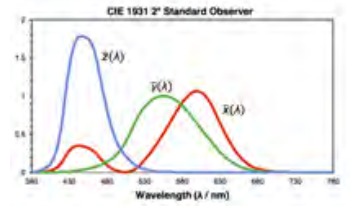
The Lab color space is itself derived from an earlier reference space, CIE XYZ. In 1931, CIE established a model based on an averaged observers' visual sensitivity to different wavelengths of light under a specific light source and angle of illumination. From that model, the CIE introduced XYZ tristimulus values and when plotted in 3D form, three coordinates XYZ. In its 2-D form, color is plotted in an elongated n-shaped chart, known as the CIE 1931 XY chromaticity diagram.

Lab adopts a 3-D model that uses values that are easier to interpret, with L or Lightness co-ordinate and two a and b color components. The model also more closely matches human color vision, in respect to the perceived differences in color and the distances between them, especially when plotted in a 2-D form using circular color wheel. However, a Lab coordinate is computed from an XYZ coordinate by "normalizing" to a white-point. This means that under a certain light source, a color that is perceived to have the same color as white is neutral, and will have coordinates, or values, $a^*=b^*=0$. In Lab, that light

source is D50.

Standard observer

The 2° Standard Observer models the center of normal human vision, which is the area most critical to color perception. An alternative is the CIE 1964 10° Standard Observer, that models a wider, and less color sensitive, area of human color vision. In practice, the choice of observer model only affects the measurement of the reflectance target when verifying color fastness using a spectrophotometer. As the Lab coordinate system does not impose any particular observer model, the choice has few consequences for the workflow, or other areas of color management.



Light source

Although a Lab coordinate is always specified with respect to a white point, it is fortuitous, or it is as a result perhaps, that flat art reproduction is generally standardized on the same D50 light source as specified in an ICC Profile Connecting Space (PCS). If a different light source is used or, more commonly, when using an ICC RGB profile with a different native white-point (or "media white"), you must convert between white-points. This process is called chromatic adaptation. Selecting profiles standardized on D50 such as ProPhoto RGB or ECI-RGB avoids this and, therefore, the need to support or interpret the required transform. However, there are some other practical limitations to overcome during conversion of ICC profiles that use a color-space with a different white-point, such as sRGB or AdobeRGB (1998).

Metamerism

Metamerism is perhaps the most challenging issue affecting the capture process. Objects that are perceived to have the same color under an observer model, are known as metamers. However, these objects may not have the same perceived color when there's a change in conditions, or in this instance light source and the angle of illumination. This is known as metamerism failure. The consequence of this is that, to get the desired result, the conditions under which the capture of the color is acquired during both profiling and reproduction, must match very closely.

There are several reasons a set of metamers may have different colors when conditions change:

Observer metamerism

Since the observer model is specified, this is not usually an issue for reproduction.

Illuminant metamerism

Color changes when the illuminant changes. In practice one should strive for light sources without any significant spectral peaks for high quality reproduction. Budget fluorescent tubes, energy-saving bulbs and LED lights can have spectral peaks that distort colors, even if they have the same color temperature (degrees K) as an expensive light source.

Instrument metamerism

This is caused by a mismatch between the observer model and the instrument. This needs to be calibrated, which is achieved using the camera profile in reproduction. Another example is monitor display calibration, using a simple tri-stimulus colorimeter. In this case, it might be necessary to stipulate a "display technology" manually (e.g., CCFL or LED) in the monitor calibration and profiling software. The mismatch between the instrument and observer can be so poor that the instrument fails the calibration process.

Geometric metamerism

This occurs when the geometry of illumination or viewing is changed.

By far the most challenging issue affecting the capture process is geometric metamerism. Ideally, a reflection target should consist of patches with a perfect reflecting diffuser. In this case, the appearance of a patch is unaffected by both the angle of the light and the viewing angle. In many cases it is unlikely that the same can be said for the objects or materials to be photographed. In practice, it is likely that there will be a significant specular component.

The specular component is highly sensitive to the angle of light and view. For colored materials, the hue of the specular component is usually closer to the hue of the light source than the hue of the diffuse reflection, with the result that patches becomes brighter (especially dark patches) and colored patches becomes less saturated (especially highly saturated patches). However, the hue of a patch can often be assessed accurately.

Note that, calibrating the processing to a set of test patches is only helpful to obtain accurate colors for materials that reacts similarly to light. For example, calibrating to a test target is great for calibrating test targets, but unlikely to be helpful to obtain accurate colors for glossy and translucent materials (e.g. paints, metals and porcelain), non-isotropic materials (e.g. textiles, papyrus and parchment) or textured surfaces (e.g. art with visible strokes and engravings).

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Lab Coordinates in a Processed Image

The process of conversion from RGB to the Lab color space is determined by the profile in use. However, when using different color engines, there is some discrepancy in the way the data is translated.

- [Overview](#)
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- [Chromatic Adaptation](#)
- [Black Point Compensation \(BPC\)](#)
- [Slope Limiting Profiles](#)
- [Rendering Intent](#)
- [Profiles based on 3D LUTs](#)

Overview

When measuring colors (e.g., from patches in color chart) using readouts, the intention is to match the colors in the processed output file to the chart's reference data. The camera profile describes how the colors of the captured image are to be transformed into a reference color space known as a Profile Connection Space (PCS), while the output profile describes how the colors from that are to be transformed in the output image file.

In Capture One, it is only necessary to process and output an image when using the file in third-party analysis software, otherwise it is enough to measure the colors using the output profile, as Capture One converts the results in the Viewer. The output profile determines the destination color space, which is set by the selected Process Recipe. (The Proof Profile option may be used instead, however, note that, if an output file is required for analysis, the selected Process Recipe must use the same profile.) Most modern applications, not to mention the chart maker's reference data, specify colors as Lab color space coordinates or values, therefore Capture One Pro can now display Lab values as an option.

While Lab is a reference color space adopted by the ICC in the PCS, there is variation in the way that third-party color engines convert the data in RGB profiles to the Lab color space. That is assuming an output file is required in an RGB color space and is to be interpreted using a ICC output profile. Note that, some third-party software analyzes colors directly without interpreting a ICC profile. For more information, see the section on [Matching Third-Party Applications](#). The following describes some of the challenges involved during the conversions.

White point

The ICC specification defines that the white point for the profile connection space is D50, and this is specified in the ICC profile. However the same specification states that D50 should have certain XYZ coordinates when in fact ICC profiles round the coordinates and most color engines adopt that or close to it. In addition, RGB coordinates at 255, 255, 255 should be neutral white, but in some profiles that's simply not the case, however, it can be used to infer that. Many profiles in use do not strictly adhere to the definitions, and although it's possible to construct them so that they do, color engines vary in they method used to interpret the results.

Chromatic Adaptation

Although the ICC state clearly that the white-point for the profile connection space is D50, the native white-point of the actual color space, sometimes referred to as media white, is often different. For example, standard working spaces sRGB and Adobe RGB are both specified to a media white of D65. Some validation applications adopt the standards for the color space directly, without using an ICC profile for the definition, based on the media white point. When an ICC profile is used, color engines must convert between white-points, which is known a chromatic adaption. Two commonly used methods, known as the von Kries and the Bradford transforms, can be employed to convert between these white-points. However, some more generalized applications describe Lab coordinates in the PCS, which assumes D50 as the light source, and uses simple XYZ-scaling between that at D65, which can result in errors exceeding 8 delta E ab. Capture One supports several methods when converting between white-points.

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Black Point Compensation (BPC)

Black point compensation (BPC) helps maintain shadow detail when converting between source and destination color spaces. The black point of the source space is mapped to that of the destination space, and if not enabled, any colors that are darker than the destination space are clipped and details in those darkest black areas are lost, which is sometimes referred to as "crushed-" or "blocked-up-" shadows.

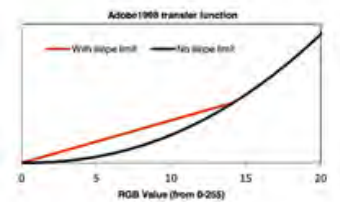


Although BPC algorithms differ between color engines, a simple linear transform on individual XYZ values is common. As a consequence, this method results in a shift of hue, saturation, or lightness, and leads to inaccurate color values. Therefore Capture One does not support color black point compensated Lab readouts, and it may be necessary to configure third-party applications to match (i.e., disable BPC) when validating values. The issue can be avoided by using output profiles that can represent black, where known, and is highly recommended, unless the image is being processed to a device such as a printer.

Note that, Perceptual rendering intent, when selected in Adobe Photoshop, always maps the darkest black of the source space to the destination space, therefore when validating readouts with values in Photoshop it is recommended that Relative Colorimetric intent is adopted, with BPC disabled and Use Dither. This improves the gradations in shadow tones in 8-bit images during conversion. As BPC is a highly destructive process, it should be limited to the last operation in a color-managed workflow, where possible.

Slope Limiting Profiles

Several standard profiles including Adobe RGB and ProPhotoRGB have a shallow gamma tone curve at its base (close to $x=0$). Many color engines adopt their own interpretation of the specification, thereby handling the shadows and deeply saturated colors differently. Some engines such as the Adobe Color Engine (ACE) apply what's called "slope-limiting" to help in practice, but even slope-limits vary between various color engines. Although the effects are subtle, it can account for differences of 0.4 delta E ab at certain RGB coordinates. While Capture One supports the interpretation of profiles with, and without, slope-limiting, the issue can be avoided by adopting profiles that are based on tables, or by using v4 profiles that include slope-limiting.



Rendering Intent

An ICC profile may include several interpretations for different rendering intents. Although not typically adopted for the type of output profiles considered here, it may be an issue for certain profiles. Therefore, Capture One will choose the colorimetric intent when a choice is required. Note that, the distinction between relative and absolute colorimetric intents is dictated by the choice of chromatic adaptation.

Profiles based on 3D LUTs

Capture One does not support Lab readouts from profiles based on 3-D look-up tables (LUTs). Profiles based on 3-D LUTs include the majority of CMYK profiles, printer profiles and a small number of others that describe a complex relationship between color and the coordinates. The ICC specification does not detail an interpolation method for 3-D LUTs, and is therefore open to interpretation by various CMMs.

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Standard RGB Color Spaces

This section looks at the relative merits, as well as some of the shortcomings, of popular standard RGB color space profiles.

- Comparison of spaces
- sRGB
- Adobe RGB (1998)
- ProPhoto RGB
- ECI RGB v2

Comparison of spaces

There are several RGB spaces that are formal color space standards. Each can be used in Capture One for color correction and when using color readouts for comparing with reference values supplied with reflectance charts (i.e., color targets). These include sRGB, specified by HP and Microsoft (IEC 61966-2-1:1999), Adobe RGB (1998), ProPhoto RGB (ROMM), specified by Kodak (ISO 22028-2:2013) and ECI RGB v2, specified by the European Color Initiative.

	Profile implements the specification		Profile gamut:		Black point is D50	Media white is D50	(D50,205,205) is neutral	(0,0,0) is black	Profile is sRGB intent
	Yes	No	Yes	No	Yes	No	Yes	No	
sRGB	Yes	No	Yes	No	Yes	No	Yes	No	
Adobe RGB (1998)	Yes	No	Yes	No	Yes	No	Yes	Yes	
ProPhoto RGB	Yes	No	No	No	No	No	Yes	Yes	
ECI RGB v2	Yes	No	Yes	Yes	Yes	No	Yes	No	

One of these color spaces should be used when editing and using the Lab color readouts in Capture One. The color space profile can be selected using either the proof profile option or from the selected process recipe (verification required). Note that Capture One does not edit in this space, instead it determines the color it would use if it processed the image to a file. When the process recipe option is being used to determine the space, it is this same space that's used when being processed for output. Therefore, the proof profile option should be used with some caution if an output file is required for further validation, in case its processed with a different color space profile.

RGB color spaces vary in gamut, gamma tone curve and white point or media white, and the profiles used to describe those characteristics are open to interpretation by different color engines when converting to the Lab color space. While that's not an issue if you only ever measure RGB readouts in Capture One, besides taking care to match the RGB space of the chart's reference values and the output RGB space, this can cause a mismatch if comparing the Lab readouts in Capture One with the color values in the output file using a third-party application.

sRGB

This color space is an important space, for several reasons. Not only is it the standard for the web, images that do not have an embedded color profile are assumed to be in sRGB, many monitors approximate the space or adopt modes that do. Besides a relatively small gamut, limitations with this profile include an increasing number of profile versions that claim to adhere to the standards but deviate in some way. Some of these, for example, include a model for flare, which should be avoided. The profile shipped with Capture One does not include a model for flare. Even the ICC profile differs from the original standard in not having a neutral white, and doesn't adhere strictly to the media-white of D65. This has led to some third-party color engines, notably ACE to detect errant profiles and "hot-fix" them, neutralizing the white-point. The many differences in these profiles may affect comparisons in Capture One with analysis software, not only in those interpret images directly (without the ICC profile - such as ISA GoldenThread) but also those that silently fix them.

Adobe RGB (1998)

With a relatively large gamut that encompasses many printer and some high-end monitor spaces, along with tightly controlled profiles, this is considered a useful working color space. Although white is exactly neutral, there are still a few

potential pitfalls for color engines to interpret the results correctly. The media white point is specified as D65, which may require chromatic adaptation, and the ICC profile adopts a gamma tone curve that's subject to slope limitation. This can cause dark and saturated colors to be misinterpreted between applications.

ProPhoto RGB

Initially, this space looks like a useful working space to use in a reproduction workflow. It has a gamut that's large enough to encompass a practical range of colors used for both digitization and printing, a white-point specified as D50, thereby avoiding chromatic adaptation, and a gamma tone curve with a linear segment for dark tones that color engines can interpret. In practice, though, even ProPhoto RGB has some limitations. The initial ICC profile from Kodak is subject to slope-limiting, and subsequent versions neither adopt D50 as the illuminant, nor detail white as neutral. A more recent version released by the ICC includes a flare model, which should be avoided. Finally, the large gamut means that there are large gaps in 8-bit form between the 256 steps that can lead to posterization, therefore files should be maintained at 16-bits/channel throughout the workflow.

ECI RGB v2

This color space is the recommended space in the Metamorfoze Preservation Imaging Guidelines, and the only one allowed at the highest level of those imaging standards. This profile is the most likely to produce the same result across different color engines. Although white is not neutral (it has a slight tint at 255, 255, 255), it's the only profile that avoids all the other compatibility issues. The space has a usefully wide gamut that extends beyond AdobeRGB in certain hues, however, it cannot quite represent saturated blue and magenta hues that sRGB can. Nevertheless, it is particularly suited to modern printers and, with correct exposure, uses bit-depth efficiently, making it one of the most suitable color spaces for 8-bit/channel images.

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Matching Lab Conversion to Third Party Software

Capture One Pro offers several Lab implementations to match the different interpretations of RGB profiles by third-party applications.

- Conversion options
- Generic conversion
- Adobe Photoshop
- ISA GoldenThread

Conversion options

As previously discussed in this guide, most profiles can be interpreted in different ways which will lead to the Lab conversion results, and therefore color values, being different to the those displayed in Capture One. To obtain the same results as a third-party application, it is necessary to select an interpretation in Capture One that matches that of the target analyzer software you intend to use.



Although Capture One supports a number of variations used by third-parties, in some cases it may also be necessary to configure the analyzer software. It is usually necessary to disable Black Point Compensation (BPC) for color space profiles that are unable to represent black. Note that some applications enable BPC when the perceptual intent is selected, regardless of other settings to the contrary.

Generic conversion

Capture One provides two generic conversion options. The Generic D50 option matches most third-party implementations such as that used by Delt.ae by Picturae and LCMS by Marti Maria, and converts Lab values using D50 as the white point.

Generic (media white) can be used to match colors while avoiding chromatic adaptation. However, colors must be measured under the light source of the intended color space profile. For sRGB and Adobe RGB (1998) this is D65.

Adobe Photoshop

Two further options are offered for use with Adobe Photoshop and compatibility with the Adobe Color Engine (ACE). Capture One does not support Black Point Compensation (BPC). In third party applications, this is often achieved using a linear transform on individual XYZ-values, which doesn't preserve accurate colors. Therefore, it is necessary to disable this option, where possible. Note also that, Adobe Photoshop enables BPC when Perceptual rendering intent is selected, regardless of other settings, therefore it is recommended to select Relative Colorimetric instead and disable BPC and enable Use Dither.

ISA GoldenThread

Popular within the digital archiving industry, GoldenThread analysis software by ImageScience Associates is capable of analysis using either an ICC profile or directly using a standard color space.

To compare readouts in an image with an ICC profile, select GoldenThread (ICC), otherwise select the GoldenThread (standard) option. Note that, the output profile in Capture One must match the option used in the analysis. While GoldenThread will not use the profile directly in the Standard mode, Capture One must still apply the conversion to the correct color space.



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Message Codes

The Lab readout feature in Capture One Pro supports the most common and useful versions of profiles, however it will warn when a profile can be interpreted in more than one-way.

- [Lab readout message codes](#)

Lab readout message codes

While many different profiles are supported, a message will be displayed when a profile is either not compatible or can be interpreted in more than one-way.

Error code	Description
Error 1	Unsupported profile: profile is not supported or invalid profile.
Error 2	Data Color Space not supported: only RGB profiles are supported.
Error 3	Profile Connection Space not supported: ICC specifies that the profile connection space can be either XYZ or Lab (the white-point must always be D50). While most LUT-based profiles use Lab, RGB profiles use XYZ. Currently, only XYZ-profiles are supported.
Error 4	Class not supported. Capture One only supports profiles with the classes; display, output and color space.
Error 5	LUT-based profiles not supported. Due to the large variance in the interpretation of LUT-based profiles, these are not supported for Lab

	readouts.
Error 6	Curves mismatch: profiles are rejected if the transfer function used for the RGB-channels do not match. Such profiles will not maintain a neutral color for R=G=B and are considered not to conform to the standard.
Error 7	Interpretation depends on intent: the profile can be interpreted differently depending on intent. Capture One will choose a colorimetric intent. Note that there is no distinction between relative and absolute colorimetric intents for Lab-coordinates expressed in the profile connection space (default).
Error 8	Transform is defined in two different ways: there is both a traditional and a v4 version of the transform and they do not agree. Capture One will base the Lab readout on the v4 specification.
Error 9	Black cannot be represented: the darkest color that can be expressed in the color-space is not black. As a result, black point compensation may cause widely differing interpretations. See here for more information.
Error 10	Dark colors are slope limited: due to limitations in different color engines, dark colors may be interpreted differently. See here for more information.
Error 11	Adaptation white-point is unspecified or invalid (using media white): the profile contains an unacceptable adaptation method or the adaptation method was expected but missing. Adaptation is based on media white. See here for more information.

Error 12	Adaptation white-point is unspecified or invalid (using D50): the profile contains an unacceptable adaptation method, or the adaptation method was expected but missing. Adaptation will proceed to D50 or media-white is assumed to be D50. See here for more information.
Error 13	Media white is missing (using D50): the profile does not define media-white; D50 is assumed. See here for more information.
Error 14	Ambiguous PCS white-point: illuminant is not D50 as required by the specification. Different color engines will interpret the profile differently. See here for more information.
Error 15	Ambiguous PCS white-point: (255,255,255) is tinted. Different color engines will interpret the profile differently. See here for more information.

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Capture One Cultural Heritage

Introduction

Capture One CH is a special workflow application featuring exclusive tools expressly designed to aid museums, libraries, archives and other institutions when digitizing a wide range of materials.

Cultural Heritage Workspaces

Capture One Cultural Heritage has a number of preset Workspaces to accommodate the specific workflow needs of professionals at the forefront of preserving our cultural heritage.

Auto Crop tool

The Auto Crop tool enables automated cropping of images of flat materials, bound documents or roll film, either on capture or with an existing image.

Modify Crop

It is possible to change both the position and the size of a crop or multiply cropped selections after they have been applied.

Multi-Crop feature

The Multi-Crop feature greatly improves productivity as it allows multiple images with a specific crop each to be automatically created from a single capture.

Base Characteristics for CH

Capture One CH has a special Film Reproduction Mode in the Base Characteristics tool that handles the conversion of positive and negative black & white and color film as well as other transmissive materials. In addition, Capture One CH also ships with a number of ICC input profiles specifically for Phase One digital backs and various light sources, particularly flash and tungsten.

Film Scanning Styles

In addition to the Film Reproduction modes, Capture One Cultural Heritage offers built-in Styles crafted specifically for Film Scanning that can accommodate B&W and color transparencies and negatives as well as other transmissive materials.

Capture Resolution Ruler

The Capture Resolution Ruler can be used to confirm the resolution of images after capture, as well as when performing test shots using the composition mode.

PPI Assist

The PPI Assist feature will let you specify a target resolution, and the Camera Focus tool will then calculate how much the iXG camera needs to move relative to the subject to achieve the desired resolution.

LAB Color Readout for CH

The CIE L*a*b* color space is a popular choice for use in measuring reflective and transmissive objects and is specified in both the FADGI 4-Star and Metamorfoze imaging guidelines.

Auto Levels for CH

When using the Auto Levels feature in conjunction with conversions of positive and negative black & white and color film, it will give improved results if the Channel Mode is set to using the Red, Green and Blue Channels.

Copy Stand tool

The Copy Stand tool can be used to automatically move the camera cart on a supported copy stand until a chosen target resolution is obtained. This feature is only supported on DT




AutoColumn stands.

Slipstream

Slipstream is a highly simplified capturing mode that opens up on top of Capture One CH, and hides most of Capture One's complexity. Slipstream runs on a Windows computer and is designed for touch screen operation, as for example on a Surface.

Cultural Heritage White Papers

To get more in-depth information on how to optimize your Cultural Heritage workflow, read our Cultural Heritage White Papers.





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Introduction

Capture One CH is a special workflow application featuring exclusive tools expressly designed to aid museums, libraries, archives and other institutions when digitizing a wide range of materials.

These exclusive tools have been designed to simplify and automate highly repetitive tasks, saving time and improving productivity. All Cultural Heritage features (except Slipstream) are available on Capture One CH for Mac, while the CH version on Windows only includes Slipstream.

Note that this part of the Online Help only cover the tools that are unique to Capture One CH. Please check the rest of the Online Help for instructions on how to use all the tools that are also available in Capture One Pro.

Choosing the CH version

Go to phaseone.com and chose Products, Software and then Capture One. Download Capture One to your computer by clicking on Try Now. Once downloaded, double-click the file to start the installation. Once installed, open the Capture One application, then on the Welcome screen, click on **More options**. Then click on **Cultural Heritage** to use this version. Finally, select Try for a trial version or Activate if you already have a Cultural Heritage license code.



Activation

Capture One Cultural Heritage is activated by special license keys available through Phase One Cultural Heritage Partners. Chose Capture One > License... to open the license activation dialog. Type in the License Code, then type in your email address, and select Get Profile. If you have registered previously, you will be asked for your account password. If you are a new customer, please fill in the rest of the form. Complete this process by selecting Activate.

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Cultural Heritage Workspaces

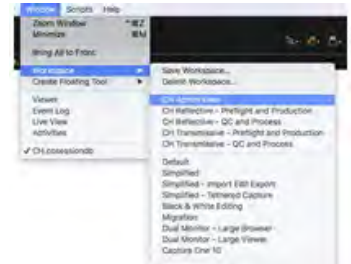
Capture One Cultural Heritage has a number of preset Workspaces to accommodate the specific workflow needs of professionals at the forefront of preserving our cultural heritage.

- Selecting a Workspace

Selecting a Workspace

From the main menu go to Window > Workspace and select one of the following:

- CH Admin View
- CH Reflective - Preflight and Production
- CH Reflective - QC and Process
- CH Transmissive - Preflight and Production
- CH Transmissive - QC and Process



There are numerous possibilities to customize each of these workspaces. You can, for example, add any number of tools to a Tool Tab by right-clicking and choosing Add Tool and select the desired tool from the menu. It is recommended the avoid overcrowding a Tool Tab to maintain an efficient workflow.

It is also possible to rearrange the order of the Tool Tabs by pressing Cmd (Mac) and dragging the icon in the tab menu to the preferred position.

For more information on customizing workspaces, please [this section](#).

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Auto Crop tool

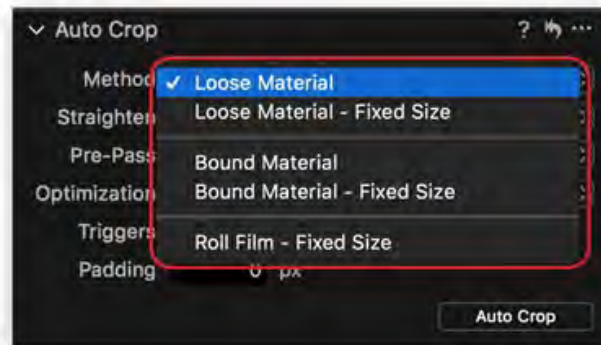
The Auto Crop tool enables automated cropping of images of flat materials, bound documents or roll film, either on capture or with an existing image.

The tool is highly customizable with options to select a fixed size crop from a Primary variant (master image), and preselect document edges for straightening. The Auto Crop tool is particularly useful when used with Variants, allowing different crops of the same image. The Auto Crop tool is located by default in the Production and QC Tool Tabs in several CH Workspaces, or can be added to a Tab by using the Add Tool option.

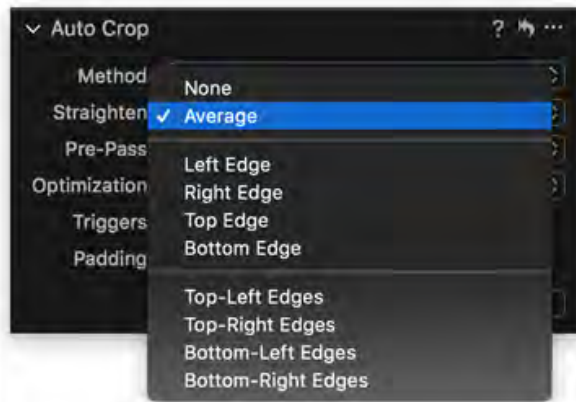
- Apply Auto Crop to single image
- Apply Auto Crop to multiple images (Fixed Size)
- Auto Crop confidence feedback for Roll Film
- Apply Auto Crop on capture

Apply Auto Crop to single image

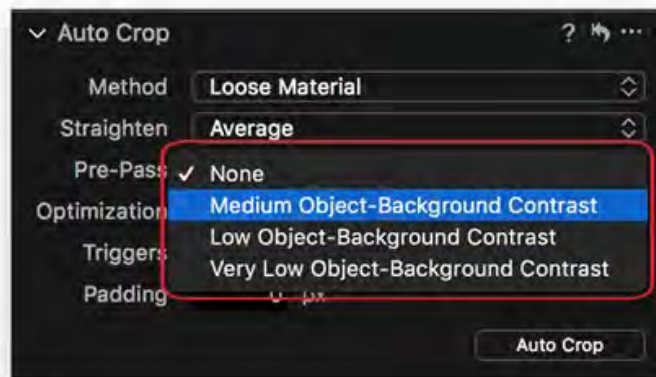
1. Go to the Production or QC Tool Tab, and locate the Auto Crop tool.
2. From the **Method** drop-down menu select Loose Material for various materials (photos, documents, objects etc.) or Bound Material for bound documents (like a book). This selects the most appropriate algorithm for the subject. Note that the **Fixed Size** methods are covered later.



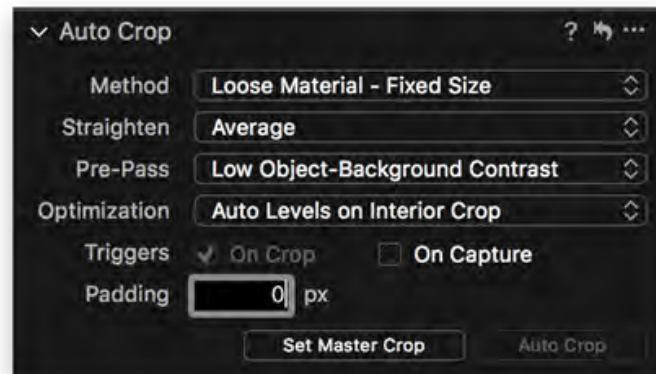
3. Click on the **Straighten** drop-down menu and choose the edge to best align the crop, or select Average based on all four edges or if there's no straight edge. Choose None to disable the feature.



4. The **Pre-Pass** option helps the crop tool to better distinguish between the subject and the background if the difference is very small. For example, if a white paper is lying on a white background, you should choose or Low Object-Background Contrast or even Very Low Object-Background Contrast. If the difference between the object and the background is well-defined, None should be selected.



5. With **Optimization** it is possible to have Levels adjusted automatically after the auto crop, for example, to enhance the legibility of faded text on a paper or to automatically adjust a black and white negative based on the range of tone in the image. This is done by choosing Auto Levels on Interior Crop in the drop-down menu. Note that the adjustment is based on a frame that is 10% smaller than the actual crop to avoid being influenced by a white or black frame. You should also be aware that the way the Levels are automatically adjusted depends on the settings in Preferences > Exposure. Please see the topic Change the Channel Mode [here](#). Select None to disable this feature.



6. Insert a positive or negative - (minus) value for the margin in pixels in the **Padding** box. Note that a value must be present, so if no padding is required, type 0 (zero).

7. Press **Auto Crop** at the bottom of the dialog, or select the Crop cursor from top Tool Bar or from the Crop Tool and make the selection. If the **On Crop** option is selected, the Auto Crop will be applied within the area that is manually cropped. This method can be very useful to help isolate objects that are otherwise difficult to recognize automatically by the Auto Crop

feature.

8. If fine-tuning is required, click the **Auto Crop** button a second or third time as this will attempt to trace the edges with a tighter margin. You can also adjust the crop manually by selecting the Crop cursor (if not already selected) and then click inside the crop area of the image requiring adjustment and drag into place.

Notes:

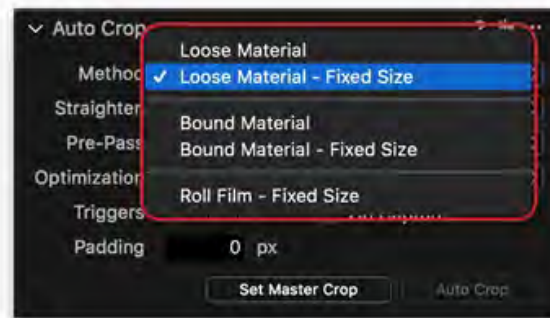
- Applying the Undo command in the Main tool bar will cycle through previous steps. Clicking the Reset Crop button will revert to the original un-cropped image.
- The Loose Material setting selects the largest object in the image.
- The Auto Crop algorithm is designed to recognize rectangular objects and may not work with other shapes; for those objects, you may use a rectangular card or paper as a frame.

Apply Auto Crop to multiple images (Fixed Size)

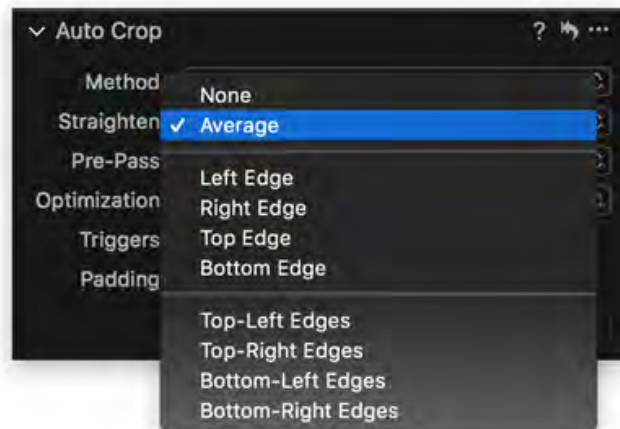
The workflow is similar to working with one image (see above), however, there are additional steps as the user must specify a master crop as well as the number of images to apply the master crop to.

1. Go to the Production or QC Tool Tab, and locate the **Auto Crop** tool.

2. From the **Method** drop-down menu select Loose Material - Fixed Size for same size material, Bound Material - Fixed Size for books and bound documents, or Roll Film – Fixed Size for film.



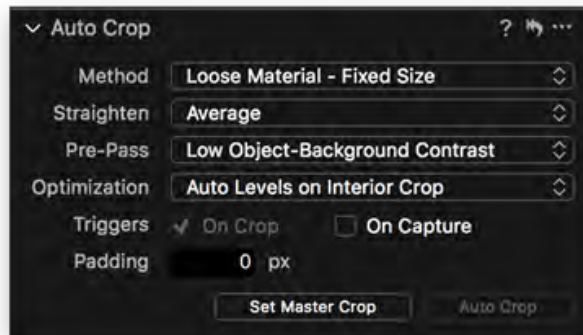
3. Click on the **Straighten** drop-down menu and choose the edge to best align the crop, or select Average based on all four edges or if there's no straight edge. Choose None to disable the feature.



4. The **Pre-Pass** option helps the crop tool to better distinguish between the subject and the background if the difference is very small. For example, if a white paper is lying on a white background, you should choose or Low Object-Background Contrast or even Very Low Object-Background Contrast. If the difference between the object and the background is well-defined, select None.



5. With **Optimization** it is possible to have **Levels** adjusted automatically after the auto crop by choosing Auto Levels on Interior Crop in the drop-down menu. Note that the adjustment is based on a frame that is 10% smaller than the actual crop to avoid being influenced by a white or black frame. Select None to disable this feature.



6. Select the Crop cursor from Cursor Tool bar or from the Crop Tool and make the selection. Note that it is not possible to click on the Auto Crop button when the selected Method is a Fixed Size. To use the Auto Crop functionality, choose the Loose Material or Bound Material method temporarily.

7. Insert a positive or negative - (minus) value for the margin in pixels in the **Padding** box. Note that a value must be present, so if no padding is required, type 0 (zero).

8. Once the crop is done, click on **Set Master Crop**.



9. Press the Cmd (Mac) key and select the images to apply the master crop to.

10. Go to the main menu, select the **Edit** menu and make sure that **Edit All Selected Variants** is enabled.

11. Press **Auto Crop**.

12. If fine-tuning is required, press the **Auto Crop** button a second or third time, or adjust the crop manually by using the Crop cursor.

Notes:

- Straightening is supported by all Auto Crop Methods, within the range of +/-5 degrees.

Tip: Holding the Shift key while applying a crop will override any previous selection.

Film scanning tips:

- The new method is a Fixed Size method, much like the two other fixed size methods. Therefore, it requires setting a primary crop on an image before running the auto crop.
- The film scanning method requires the primary crop to have the exact size of the film frame to be cropped.
- It is important to set a primary crop in an image with the film placed in a “recurrent” position. In other words, if most of the images to be auto cropped have the film horizontally centered in the image, the primary crop should be chosen among those rather than among the few ones with a non-centered film frame.
- The method is optimized for the landscape case: the film strip is placed in landscape, with sprocket holes – if any – located at the top and bottom of the image in two horizontal strips.
- The film scanning method is optimized for auto cropping of positive images: if the films are negative, the “Film Negative” mode in the Base Characteristics tool should be selected before auto cropping. Though some good auto crop results can be achieved anyway.
- As usual, good exposure and contrast in the image help the algorithm perform at its best.

Auto Crop confidence feedback for Roll Film

If **Roll Film – Fixed Size** for film scanning is chosen as the Auto Crop Method, Capture One CH will automatically estimate how successful the auto crop was for each image. This confidence feedback is indicated by three different Color Tags, which is assigned to each variant.

A **Green** color tag means that there is high probability of a successful auto crop. **Yellow** indicates a medium confidence that the auto crop was done correctly, while **Red** denotes a low or very low confidence. Note that the primary image with Set Master Crop will be tagged with a **Blue** color.

This feature is meant to make it easier and faster to review whether the auto cropping was done correctly. A useful workflow would be to filter the auto cropped variants by color tag. This is done by going to the main menu and select **Edit > Select By > Color Tag** and then either choosing Red, Yellow or Green.

The images with a high confidence level (Green) can then be reviewed fast with less scrutiny than those with a Red color tag. If fine-tuning is required, press the Auto Crop button again, or adjust the crop manually with the Crop cursor.

Note that the assigned confidence levels are estimates so it is entirely possible that an image with a Red color tag have been auto cropped correctly, while one with the Green tag could be improved upon.

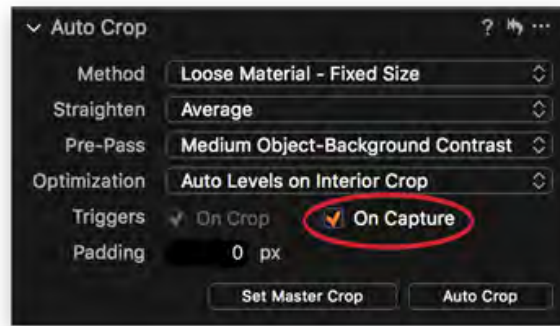
Note: In case of significant frame changes, cropped variants will likely result in medium confidence crops (Yellow tag). The amount of yellow tags can be greatly reduced if a new primary crop is set whenever film size changes significantly.

Apply Auto Crop on capture

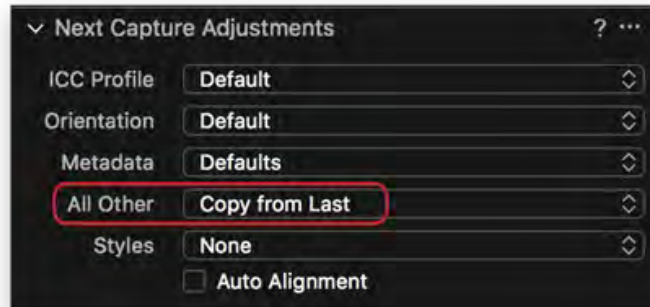
Capture One Cultural Heritage can crop automatically on Capture, potentially saving time and reducing unnecessarily repetitive actions.

1. Go to the Production or QC Tool Tab, and locate the Auto Crop tool.
2. Check-mark the **On Capture** option at the bottom of the dialog.





3. In the **Next Capture Adjustments** tool, located in the Production tool tab, make sure that the **All Other** drop-down menu is set to **Copy from Last**.



4. Capture the first image and follow the procedure for applying **Auto Crop on multiple images** (see the section above) from step 2 to step 8.

5. Now that the function is setup and enabled, any images captured will have the crop applied automatically after all other settings have been applied.

Tip: The Auto Crop can also be implemented by setting up a keyboard shortcut in the Cultural Heritage version.

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Modify Crop

It is possible to change both the position and the size of a crop or multiply cropped selections after they have been applied.

This is done with the Modify Crop feature, which is especially useful when multiple cropped selections must be changed at once.

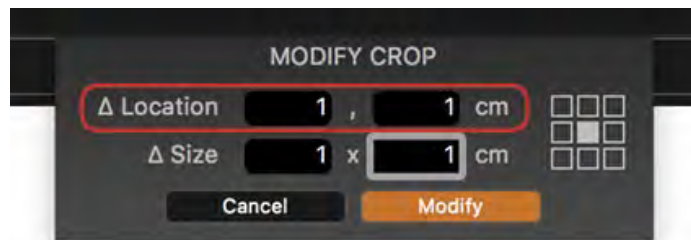
- Using Modify Crop

Using Modify Crop

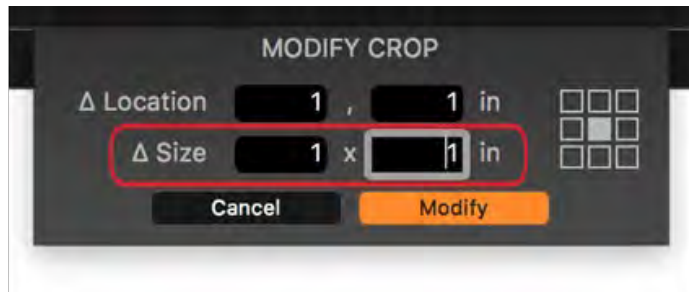
1. If the goal is to modify the crop on multiple images, press the Cmd (Mac) key and select all the images that need to be modified.
2. Go to the main menu, select the Edit menu and make sure that Edit All Selected Variants is enabled. If this option is not enabled, only the Primary selected image will have the crop changed.
3. Click on the option icon in top-right corner of the Auto Crop tool or the Crop tool and select **Modify Crop...**



4. To change the location of the crop, enter a value in the two Location fields, the first handles a horizontal move and the second a vertical move. Note that positive values will move the crop right and downwards, while negative values (adding a minus to the value) will move the crop left and upwards.



5. To change the size of the crop, enter a value in the two Size fields, the first changes the width and the second the height of the crop. Positive values make the crop larger, while negative values will make it smaller.



6. Choose where the current crop should be anchored when changing the size of the crop by clicking on one of the nine points in the Anchor box. By default, the changes will be done from the center out. By choosing the top-right corner, for example, it is possible to make sure that all changes to the size happen in the opposite direction, e.g. to left side and bottom of the crop.



7. Click on **Modify** to apply the changes.

Notes:

- It is possible to use a combination of positive and negative values for both Location and Size. For example, the values -3 and +3 in the Size fields will reduce the width of the crop by 3 cm while expanding the height by 3 cm.
- The size unit in the Modify Crop Tool mirror what is currently selected in the size unit drop-down menu in the Crop Tool. In the example above, cm is the chosen unit.



- Depending on the settings in the selected Process Recipe, the size unit drop-down menu in the Crop Tool might be locked to the unit chosen in the Process Recipe Tool in the Basic tab. Change the unit under Scale or select Fixed in order to unlock the size unit drop-down menu in the Crop Tool.

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Multi-Crop feature

The Multi-Crop feature greatly improves productivity as it allows multiple images with a specific crop each to be automatically created from a single capture.

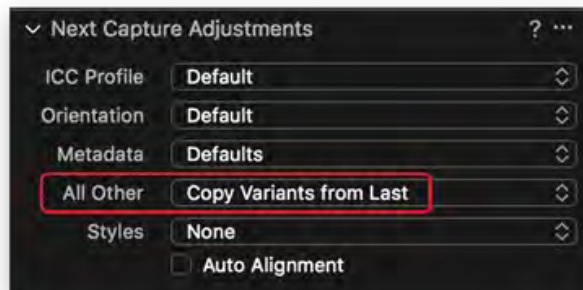
This feature is particularly valuable with high volume archives where multiple crops can be made in the same position, such as when scanning film (particularly small format), or when digitizing postcards or similar. With books, for example, both pages can be cropped into two separate images, leaving the original capture complete with an Object Level Target (OLT).

The resolution of the original capture will obviously dictate the number and size of crops, but the feature can greatly speed up a workflow. Note that this feature needed a script to run on earlier versions, but this is no longer the case.

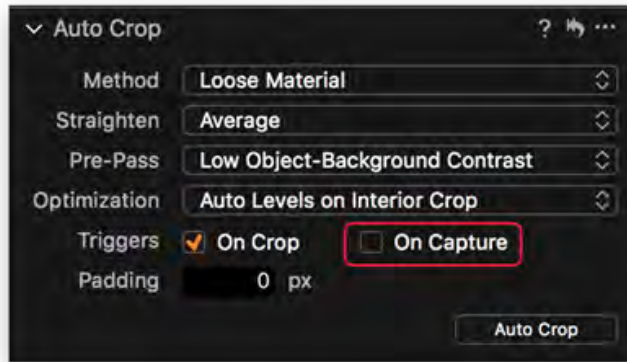
- Applying Multi-Crop to multiple images

Applying Multi-Crop to multiple images

1. Connect the interface cable from the Phase One digital back or iXG camera and make an initial capture.
2. Select this primary image in the thumbnail Browser, right-click and select **New Variant** or use the keyboard shortcut F2.
3. Add a crop as desired on the variant with the **Crop** cursor.
4. Repeat the process from step 2 for each crop of the subject that is required. If there are eight postcards per capture, for example, you will need eight variants with each their specific crop. The original image (Primary) can be kept unaltered for reference, with the OLT.
5. In the **Next Capture Adjustments** tool, located in the Production Tool Tab, make sure that **Copy Variants from Last** is selected in the **All Other** drop-down menu. If the cropped positions should be copied from another set of selected variants, choose **Copy Variants from Primary** instead.



6. Hold the Cmd key (Mac) and select each of the variants where the crop position should be copied from.
7. Make sure the **On Capture** box is unchecked (deselected) in the **Auto Crop** tool, located below in same Tool Tab.



8. Capture another image. The same number of variants are now duplicated with their specific crop positions alongside the new capture (primary image). Manual fine-tuning of crops is possible if required. Click on the selection with the Crop tool and adjust to suit.

Note: Raw files are not duplicated, the different variants are instead virtual copies with their own distinct adjustments that take up only a few kilobytes of disk space.

Tip. When combined with Styles, this feature can be used to automate the application of preset adjustments to new captures, for example, when applying one of the **Cultural Heritage Film Scanning** Styles.

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Base Characteristics for CH

Capture One CH has a special Film Reproduction Mode in the Base Characteristics tool that handles the conversion of positive and negative black & white and color film as well as other transmissive materials.

In addition, Capture One CH also ships with a number of ICC input profiles specifically for Phase One digital backs and various light sources, particularly flash and tungsten.

The Film Reproduction Mode drop-down menu is used for the conversion of positive and negative black & white and color film as well as other transmissive materials. It applies automatic conversion adjustments and employs the appropriate film curve characteristics based on the selected ICC color profile prior to the user's manual adjustments.

The **Film Reproduction** mode is located in the **Base Characteristics** tool in the Pre-Flight Tab, the Tone and Color Tab and QC Tab, depending on the chosen CH workspace. Like all other tools, it is available in all Tabs, by using the Add Tool option.

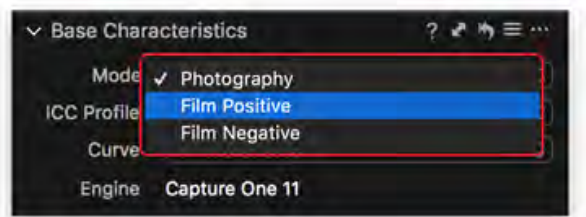
Capture One Cultural Heritage ships with a number of ICC input profiles specifically for Phase One digital backs and various light sources, particularly flash and tungsten. All recent digital backs have a profile specifically optimized for Flat Art Reproduction using flash. These are also available from the Base Characteristics tool.

Most of the Phase One digital backs and cameras have additional ICC profiles that are optimized to be used in combination with the LED lights supplied with the DT RGC180, DT RG3040, DT Atom, and DT BC100 reprographic solutions. These profiles have been designed to match the specifications of common reproduction standards such as those specified by Metamorfoze and FADGI.

- Invert Negative or Positive Film
- Specialized ICC Input Profiles

Invert Negative or Positive Film

1. From the **Base Characteristics** Tool, click on the **Mode** drop-down menu and change the default operating mode from **Photography** to **Film Negative** or **Film Positive**, depending on the film type captured.

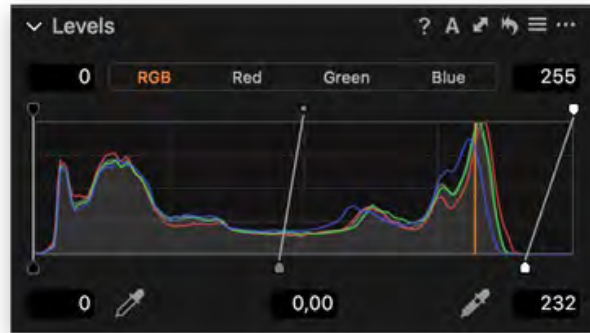


2. Change the **Channel Mode** for Auto Levels in the preferences under the Exposure tab to use the individual Red, Green and Blue Channels Mode instead of the default RGB mode. See [Change the Channel Mode](#) section for full instructions.

3. Apply White Balance adjustment, typically using the neutral frame.



4. Set a crop using either the Crop Tool or the Auto Crop Tool.
5. Apply Auto Levels. Note that when using the Auto Crop Tool it is possible to have Levels adjusted automatically after the auto crop by choosing Auto Levels on Interior Crop in the Optimization drop-down menu.

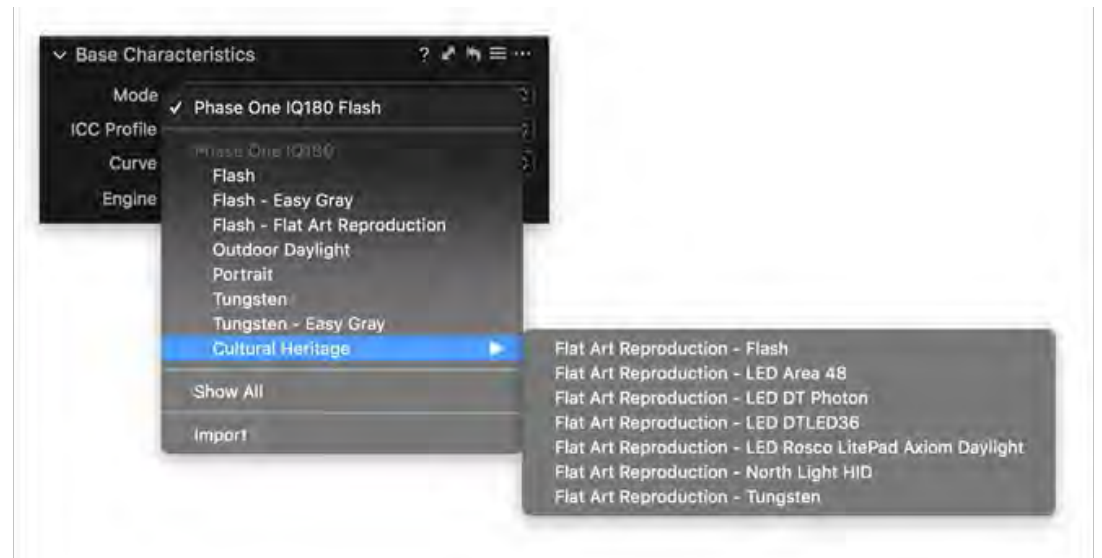


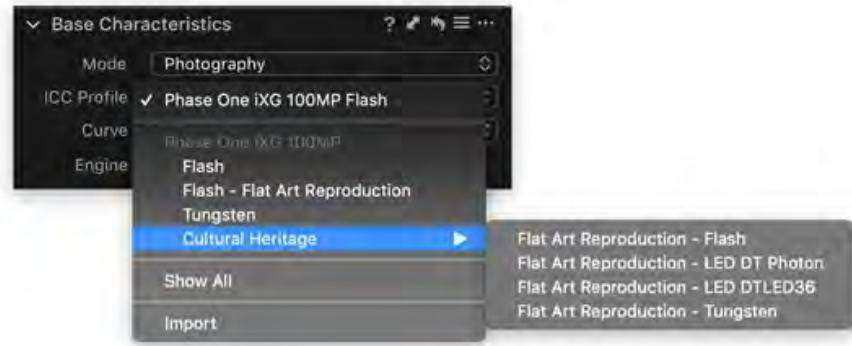
Tip. If the capture includes a large unshielded area of the light-box, crop individual frames before applying levels adjustments.

Specialized ICC Input Profiles

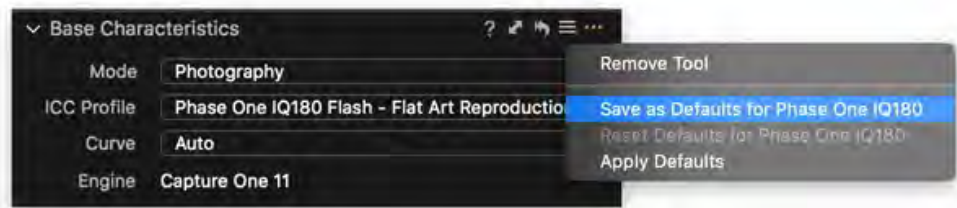
The ICC profile is selected via the Base Characteristics tool, which is located under the Pre-Flight Tool Tab, Tone and Color Tab or QC Tab depending on the chosen Workspace. Capture One automatically identifies the Camera make and model and applies an ICC Flash profile by default.

1. Locate the **Base Characteristics** tool.
2. From the **ICC Profile** drop-down menu, select the appropriate profile for the Phase One back from the list. Note that the specialized profiles for LED light etc. are found in a sub-menu under the **Cultural Heritage** menu item.





Tip. The chosen ICC Profile can be set as the default (along with the Mode and Tone Curve). Click on the Action menu [...] icon in the top-right corner, and select **Save as Defaults for Phase One IQXXX**.



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Film Scanning Styles

In addition to the Film Reproduction modes, Capture One Cultural Heritage offers built-in Styles crafted specifically for Film Scanning that can accommodate B&W and color transparencies and negatives as well as other transmissive materials.

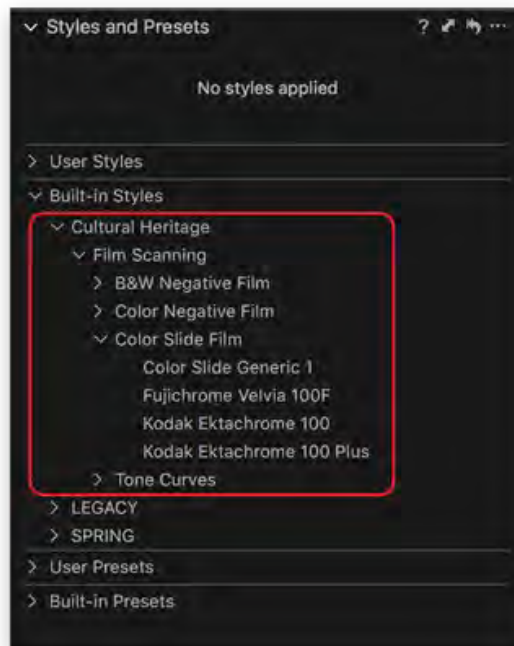
Using Styles can optimize workflow, save time and greatly increase productivity. Specific Styles can automatically invert the film curve and apply image parameters such as noise reduction, sharpening, levels and contrast to suit the specific film type.

All adjustments applied are non-destructive and when used with the Next Capture Adjustments Tool, Capture One Cultural Heritage generates both a primary (master/original) file of the film negative, as well as an inverted variant for convenient viewing.

- [Apply Film Scanning Style](#)
- [Apply Film Scanning Style on capture](#)

Apply Film Scanning Style

1. Depending in the chosen workspace, navigate to either the Adjustments Tab or Tone and Color Tab and locate the Styles and Presets tool.
2. Double-click on Cultural Heritage and then on Film Scanning to view the different styles. Double-click on either B&W Negative Film, Color Negative Film or Color Slide Film and then finally select the most appropriate Film type.



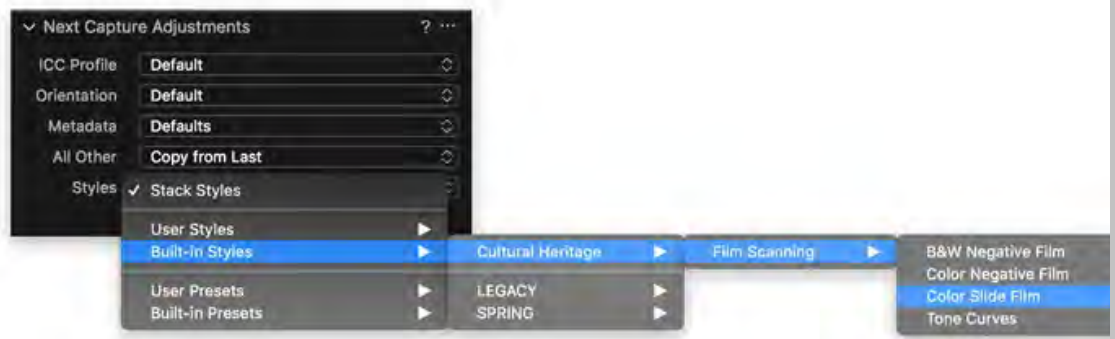
3. Make further adjustments to exposure, contrast, brightness and white balance as required.

Apply Film Scanning Style on capture

Capture One Cultural Heritage can apply Styles automatically on Capture, saving time and greatly improving productivity.

1. In the Next Capture Adjustments tool, located in the Production Tool tab, make sure that the ICC Profile is set to Default.
2. From the Styles drop-down menu, select Built-in Style > Cultural Heritage > Film Scanning and then either B&W Negative

Film, Color Negative Film or Color Slide Film and finally select the most appropriate Film type.



3. Connect the interface cable from the Phase One digital back or iXG camera and make a capture. The resulting image will be automatically converted for convenient viewing.

Tip: Combine the Auto Crop On Capture feature to isolate specific frames, or use the Dual-Crop feature to separate two or more frames while maintaining the original capture.

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Capture Resolution Ruler

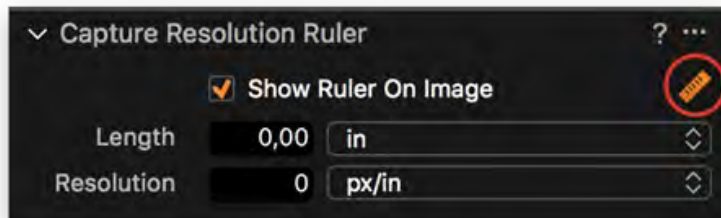
The Capture Resolution Ruler can be used to confirm the resolution of images after capture, as well as when performing test shots using the composition mode.

The Capture Resolution Ruler is located in the Main Tool Bar and the Pre-Flight and QC tabs in several CH workspaces. If it's not visible, use the Add Tool option to add it to any Tool Tab.

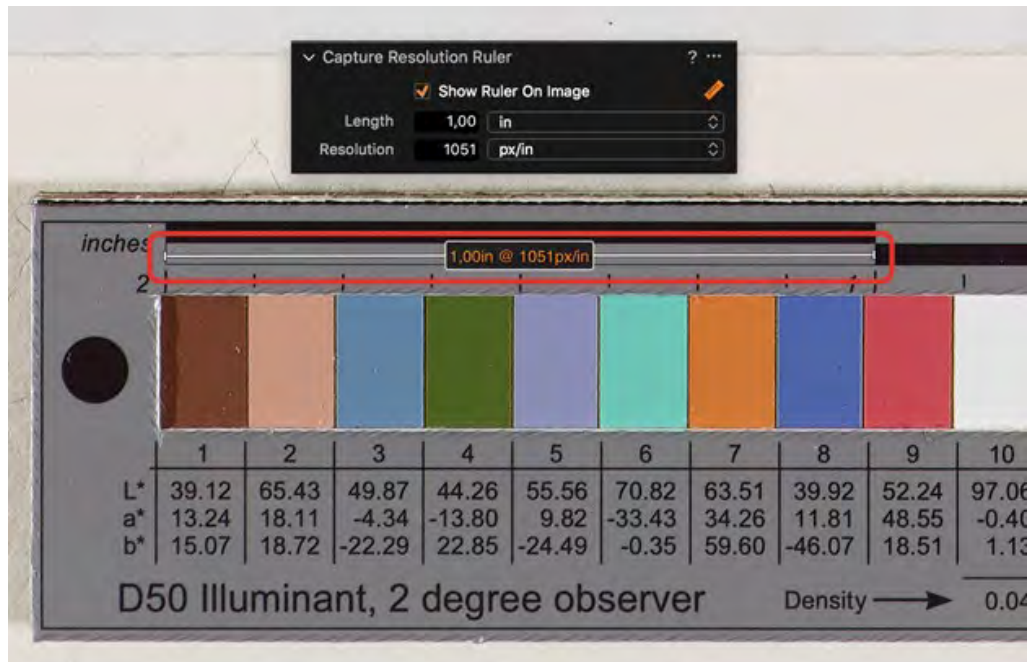
- [Measure image resolution](#)

Measure image resolution

1. Capture an image with an object level target displayed, such as that supplied by Golden Thread.
2. Locate the object level target using the Pan cursor and then double-click in the Viewer to display the image at 100% for improved viewing and accuracy.
3. From the Pre-Flight Tool Tab or the QC Tool Tab, locate the Capture Resolution Ruler panel and click on the Ruler icon. It turns orange when active. Note that the Capture Resolution Ruler tool is also available from the main Tool Bar.



4. Click and drag on the object level target's ruler as if to measure it with the cursor, taking care to align the Capture Resolution Ruler cursor's end-points with the target ruler's scale. For higher accuracy, measure the whole of the object level target's ruler, if possible. Click and drag either end of the rulers end-points to reposition and improve precision, if needed.



5. Select the target ruler's unit of measurement for **Length** and then select the unit of measurement for **Resolution** (for instance, **px/in** for PPI) from the relevant drop-down menus.

6. Type in the value of the target's ruler measured in the Length field, then click inside the Resolution field and the measured figure will be displayed. The length and resolution will also be shown on the resolution ruler in the Viewer.

Notes:

- If **px/in** is chosen as the unit of measurement, Capture One automatically converts any metric measurements for length in the Resolution field.
- Reset the Capture Resolution Ruler from the Action [...] button in the top-right corner of the tool by selecting Reset Tool.

Tip. Many tools are context sensitive in Capture One; right-click over the ruler cursor in the Viewer to activate the Capture Resolution Ruler tool.

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PPI Assist

The PPI Assist feature will let you specify a target resolution, and the Camera Focus tool will then calculate how much the iXG camera needs to move relative to the subject to achieve the desired resolution.

This feature requires an iXG camera because it is capable of measuring the distance to the subject. In addition to entering a target resolution, you can also enter a desired magnification, image dimension (Field of View) or distance to the subject.

Note that the PPI Assist feature requires an iXG camera with firmware version 3.06.5 or later installed.

- [Using PPI Assist with Camera Focus](#)

Using PPI Assist with Camera Focus

1. Attach the iXG camera and activate live view by clicking on the **Live View** button in the Camera tool.



2. Select the desired **Target** unit from the drop-down menu, choosing either **Resolution (PPI)**, **Field of View** (image dimension), **Distance**, or **Magnification**.



3. Enter the **Target** value in the field and click on the button next to it to apply the value. The lens on the iXG camera will now move to match the desired resolution in principle and the tool will report that the lens is "At the target". Note that in order to calculate the actual resolution at the current position, the camera need to autofocus on the target first, which will happen in the following step.



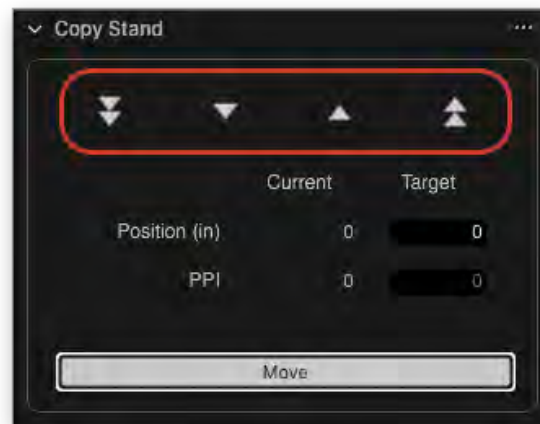
4. Click on **AF** in the Camera Focus tool to let the iXG camera autofocus on the target. Note that during the autofocus sequence, the resolution and distances values will change.



5. Once focus have been achieved, the Camera Focus tool will indicate how far the camera has to move on the copy stand to reach the desired target resolution.



6. Use either the **Copy Stand** tool to move the camera (this feature is only supported on DT AutoColumn stands) or operate the camera position manually on the copy stand.



7. Once you have moved the camera, focus on the subject by clicking on the **AF** icon in the Camera Focus tool.



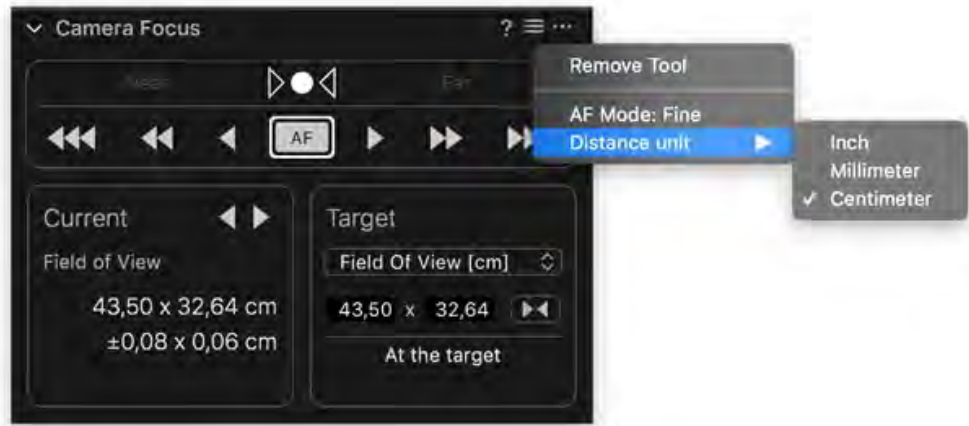
8. The Camera Focus tool will now report if the desired target resolution has been achieved with the message **"At the Target"**.



If you still need to adjust the camera's position, repeat step 6 and 7.

Notes

If you select either **Field of View** or **Distance**, you can change the units by clicking on the options icon, selecting **Distance unit** and choosing either **Inch**, **Millimeter** or **Centimeter**.



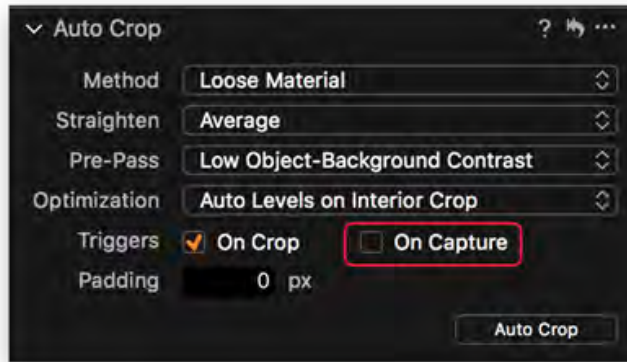
If you need to reuse a certain target resolution, it can be saved for later use as a Preset. Click on the Preset icon and choose **Save User Preset...** Then save the value. When you select the Preset later, it will be entered into the Target field.



Make sure that the camera isn't positioned too close to the subject. It is better to start with the camera near the top of the copy stand than vice versa.

It is recommended to position the orange autofocus frame in live view so it covers a high-contrast area as well as being as close to the middle of the subject as possible.

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8. Capture another image. The same number of variants are now duplicated with their specific crop positions alongside the new capture (primary image). Manual fine-tuning of crops is possible if required. Click on the selection with the Crop tool and adjust to suit.

Note: Raw files are not duplicated, the different variants are instead virtual copies with their own distinct adjustments that take up only a few kilobytes of disk space.

Tip. When combined with Styles, this feature can be used to automate the application of preset adjustments to new captures, for example, when applying one of the **Cultural Heritage Film Scanning** Styles.

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LAB Color Readout for CH

The CIE L*a*b* color space is a popular choice for use in measuring reflective and transmissive objects and is specified in both the FADGI 4-Star and Metamorfoze imaging guidelines.

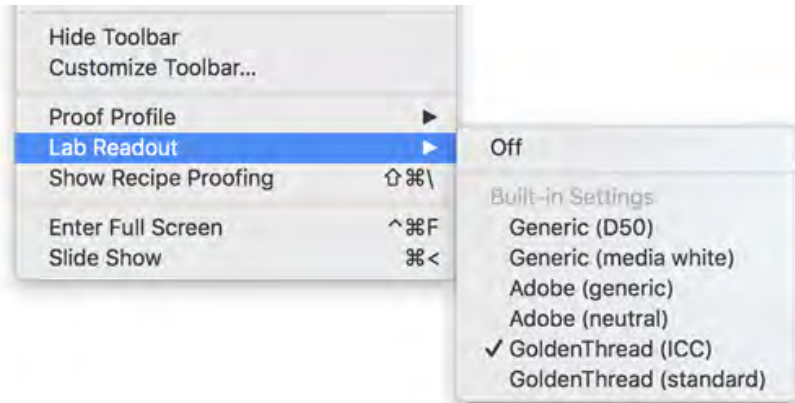
Both Capture One CH and Capture One Pro 11 can display multiple L*a*b* color readouts, so this help section will focus on getting precise measurement and analysis of colors depicted on Object Level and Device Level targets for Cultural Heritage use.

- Using multiple LAB Readouts

Using multiple LAB Readouts

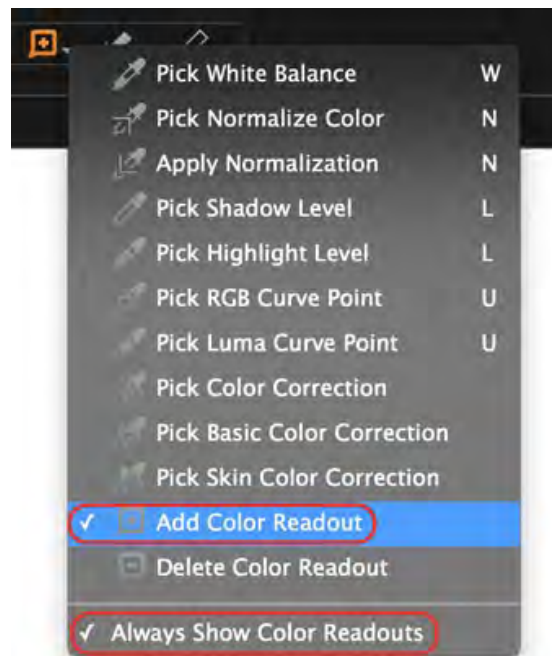
For Capture One to display L*a*b* readouts, the Output Profile selected must adopt an RGB color space. This should be confirmed first, otherwise no readout will be displayed.

1. From the main menu select View > Proof Profile, confirm or select the relevant RGB output profile, for example Adobe RGB or sRGB.
2. From the main menu select View > Lab Readout and choose the appropriate L*a*b* conversion from the following options Generic (D50), Generic (media white), Adobe (generic), Adobe (neutral), GoldenThread (ICC) and GoldenThread (standard). If you're using one of the GoldenThread targets, you should take care to select the appropriate readout option.



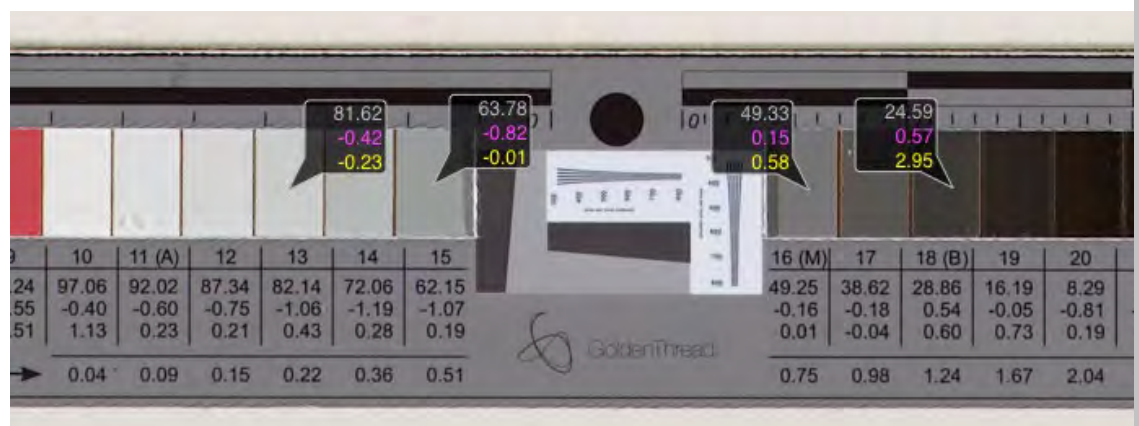
3. Connect the interface cable from the Phase One digital back or iXG camera and make a capture, or select the intended image from the Browser.

4. Choose the Add Color Readout picker from the Cursor tools.



5. Select Always Show Color Readouts from the Cursor tool drop-down menu. Readouts will now remain on screen even when another tool is selected.

6. Click on the relevant color patch in the Object Level Target or Device Level Target. You can add more than one.



7. To delete a readout, select Delete Color Readout from the Cursor tool drop-down menu and click on any readouts that you want to remove. Alternatively, position the readout cursor tool above the readout and hold the Alt key while clicking to delete it.

Tip. Hold down shift while deleting a readout will remove all readouts at once.

Please see the [Color Reproduction Guide for Cultural Heritage](#) for more information.

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Auto Levels for CH

When using the Auto Levels feature in conjunction with conversions of positive and negative black & white and color film, it will give improved results if the Channel Mode is set to using the Red, Green and Blue Channels.

This is particularly true in regards to color accuracy and is recommended for film reproduction.

- [Auto Levels Clipping Thresholds](#)
- [Change the Channel Mode](#)

Auto Levels Clipping Thresholds

When using the Auto Levels feature, Capture One Cultural Heritage by default sets a 0.10% threshold for Shadows and Highlights. This allows a small number of pixels to clip in one or more color channels. For example, a low number of small specular highlights can be allowed to clip without reducing the overall contrast and dynamic range of an image. If the defaults need to be altered, the settings may be adjusted from the Preferences panel.

Adjust Thresholds

1. From the Main menu, select Capture One > Preferences. The Preferences dialog opens.
2. Click on the Exposure tab and locate the two Auto Levels Clipping Thresholds fields at the bottom of the window.
3. Type in the required values and close the preferences dialog.

Notes:

- The range is adjustable between 0-10%, although in practical terms it's unlikely that anything approaching 1% and above would be necessary.
- The Auto Levels Clipping Thresholds deliver the specified percentage of clipped pixels precisely.



Change the Channel Mode

1. From the Main menu, select Capture One > Preferences. The Preferences dialog opens.
2. Click on the Exposure tab and select Red, Green and Blue Channels from the Channel Mode drop-down menu.
3. Close the preferences dialog.



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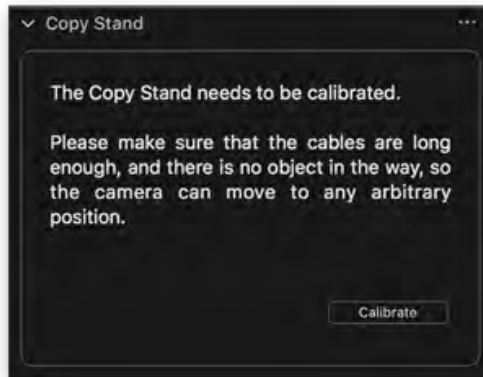
Copy Stand tool

The Copy Stand tool can be used to automatically move the camera cart on a supported copy stand until a chosen target resolution is obtained. This feature is only supported on DT AutoColumn stands.

- [Using Auto PPI with Copy Stand](#)

Using Auto PPI with Copy Stand

1. Connect a supported copy stand to your computer and then start Capture One Cultural Heritage. The Copy Stand tool needs to be calibrated and configured manually first before the feature is fully working, so the Copy Stand tool will now inform you that the stand needs to be calibrated. Click on **Calibrate**, and the camera cart on the column will move.



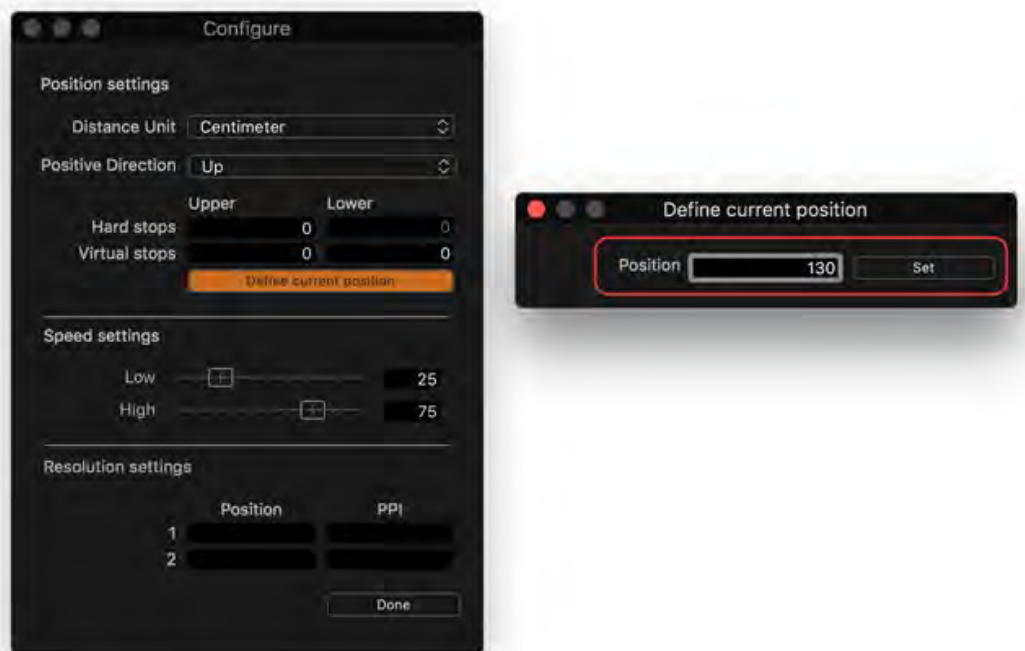
2. You start by setting the hard safety stops by clicking on the options icon and choose **Configure...**



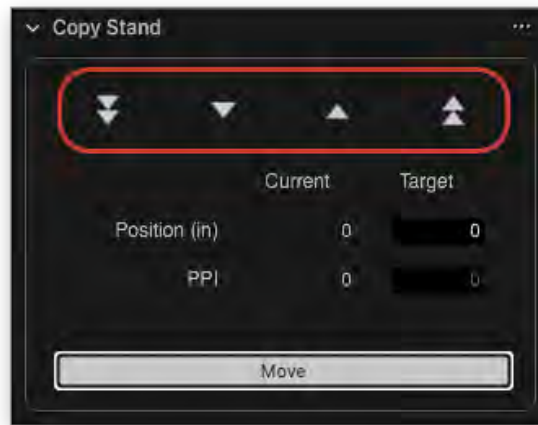
Set the **Distance Unit** to **Centimeter** and **Positive Direction** to **Up**. This matches the physical markings on the column (which are in centimeters) and increases as the camera is moved upwards.



Note the height position of the camera carriage. This value is read where the bottom of the carriage aligns against the copy stand ruler. Click on **Define Current Position**, enter the carriage height, then click **Set**. Click **Done**.

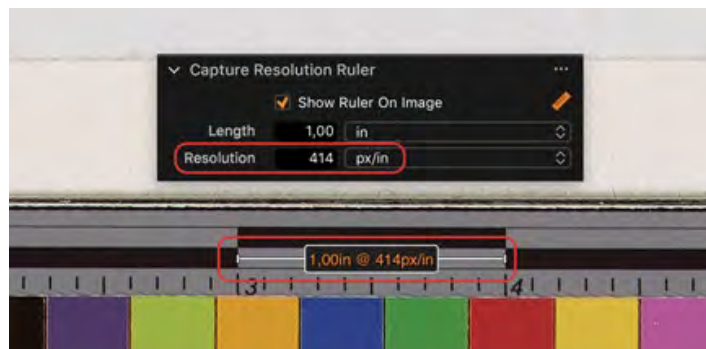


3. Once this calibration is complete, you can move the camera height on the copy stand manually by clicking on the arrows in the Copy Stand tool.



4. If you want to take advantage of the Auto PPI feature, the tool needs to be configured first. This is done by taking two captures with the camera placed in two different height positions on the copy stand. You will need to capture a subject with a clear distance measurement, like a ruler.

Select and use the **Capture Resolution Ruler** tool to measure the pixel per inch value for each height position and note the height information on the stand and the resolution for both positions. The height position is read where the bottom of the carriage aligns with the copy stand ruler.

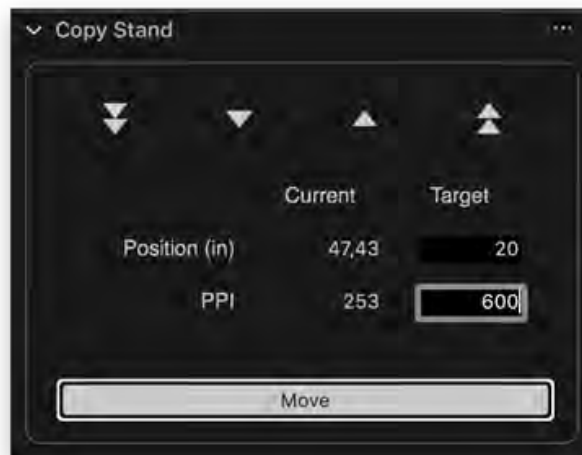


5. Once done, click on the options icon and choose **Configure...**

6. Under Resolution settings, enter the height **Position** and the corresponding **PPI** for both positions noted in step 4. Then click **Done**.



7. Enter the desired **Target PPI** value and click on **Move**. The copy stand will now move the camera cart on the column until the target resolution is reached. Focus the camera and begin the captures.



Note: The Copy Stand tool will reach the target PPI by interpolating between the two entered Position/PPI settings. This is done quite accurately. The tool can also extrapolate outside of the two measured height positions, but it will be less precise.

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Slipstream

Slipstream is a highly simplified capturing mode that opens up on top of Capture One CH, and hides most of Capture One's complexity. Slipstream runs on a Windows computer and is designed for touch screen operation, as for example on a Surface.

To secure efficiency in a digitization project, the following organizing of the workflow is assumed:

- An Administrator handles the work of camera setup and job preparation. The Administrator is trained to operate a Phase One camera controlled by Capture One CH to achieve a specified image quality.
- The Administrator then switches Capture One CH to Slipstream mode, which hides the regular Capture One user interface and presents the very simple user interface for image capturing.
- The Operator takes over, correctly placing documents and pages of books on the copy stand, and pressing "Capture". This simple process is then being repeated until the document or book is digitized fully.

- [Preparing Slipstream by the Administrator](#)

- [Using Slipstream by the Operator](#)

- [Starting a new Slipstream session](#)

- [Starting capturing](#)

- [Adding a text description](#)

- [Retaking a capture](#)

- [Inserting a new capture](#)

- [Slipstream viewing modes](#)

- [Finishing the Slipstream session](#)

- [Post processing by the Administrator](#)

Preparing Slipstream by the Administrator

To provide a smooth and efficient Slipstream workflow, all camera settings and base image adjustments in Capture One need to be setup correctly by the Administrator. This guide will ensure that the capturing environment is well established and ready to go for the Operator to take over and start the work in Slipstream.

Please note, that beyond Slipstream, the Windows version of Capture One CH currently (version 11.2) includes 4 ICC input profiles that were specifically designed for the more common lighting systems. These profiles are the same as the ones available in Capture One CH on a Mac. See more about ICC profiles and curves for reproduction below. The Windows version does not include the Cultural Heritage specific features like the Auto Crop tool, the Cultural Heritage Styles, and other functionality. These CH-specific features are available for post processing after the Slipstream capturing within the Mac version of Capture One CH, ready to be installed and connected in a network.

Phase One camera setup

The first step is to setup the camera correctly on the copy stand. Position the camera to make sure that the images are captured at the desired resolution and that the focus is accurate. Camera settings like aperture, shutter speed, ISO etc. have to be set correctly at this stage as none of these are controllable from the Slipstream user interface.

Always take a test capture to make sure that everything like lighting, exposure and focus are set as expected before handing over the job to the operator.

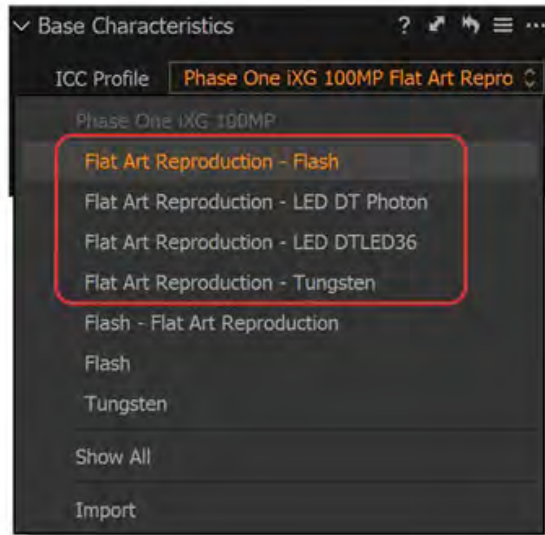
Capture One CH setup

Once the hardware is set up correctly, the next step is to ensure that the captured images are saved to the right location, named correctly, and that the proper image adjustments are applied automatically.

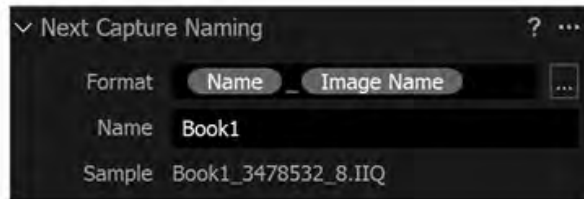
1. Go to the **Base Characteristics** tool and ensure that the correct **ICC Profile** and **Curve** is selected. Capture One Cultural Heritage 11.2 for Windows includes Cultural Heritage-optimized ICC profiles, so remember to select the proper one.

PHASE ONE

what the world's best photography is made of



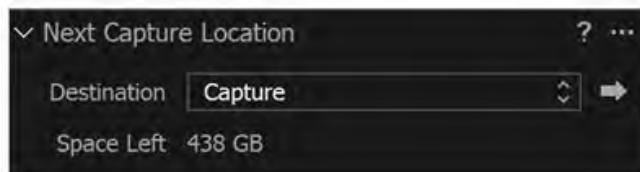
2. Use the **Next Capture Naming** tool to create the desired naming format by using text and Tokens to match the job. Note that the Tokens "Camera Counter" and "Destination Folder Name" can't be used in Slipstream. You will get a warning to remove those, if they are added.



It is important to be aware that the file names created during capture are not visible for the Operator within Slipstream and that the file names cannot be altered. Instead, the Operator has the option to add a metadata description to each image capture with the **IPTC – Title** tag. This metadata description can then later be added to the file name via the **Title** token by the Administrator.

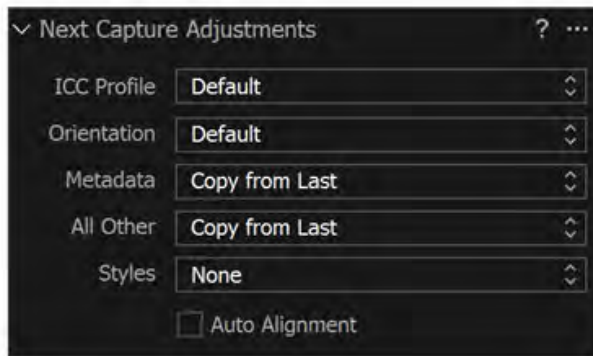
Since the Operator can delete and retake images as well as add title metadata, it will make the most sense to batch rename all the files by the Administrator after the operator is done and have exited Slipstream. You can read more about **Capture Naming** [here](#).

3. Use the **Next Capture Location** tool to select a destination folder as well as setting up the subfolder naming with Tokens. In a typical workflow, it might be a good idea to store the captures on a network drive that someone with Capture One CH for Mac has access to. This will support a great workflow where an Administrator can continue the work on the captured images with advanced Cultural Heritage tools like **Auto Crop** or Cultural Heritage-specific Styles, for example. You can read more about the **Capture Location** tool [here](#).



4. Use **Next Capture Adjustments** tool to set **Orientation**, add **Metadata**, image adjustments or Styles automatically to the capture images. If you want to apply specific metadata or image adjustments (like White Balance or Exposure), you will need to make a test capture first and apply the metadata or image adjustments to the test shot. Then select the **Copy from Last** option in the drop-down menus.

Image adjustments are controlled by **All Others**, so remember to set this to **Copy from Last** if you want a specific white balance to be applied on capture, for example. This workflow could also include an LCC profile to ensure light uniformity.



An alternative option is to create a Style based on metadata and image adjustments and then choose this from the **Style** drop-down menu under User Styles. You can read more about **Next Capture Adjustments** [here](#).

Once all is set, you can save some of the settings as a template that the Operator can choose from Slipstream. Be aware that the template needs to be created in Capture One on Windows as the templates are not currently interchangeable between the Windows and Mac versions.

Note: A Session template currently includes the Capture, Output, Selects, and Trash path as well as the naming tokens for capture, batch rename, Output and Output sub folder. A Session template will in addition save collections such as Albums and Favorite folders.

Using Slipstream by the Operator

Activate Slipstream by either choosing **Window > Slipstream Mode** or by clicking on the **Slipstream icon** in the **Toolbar**.

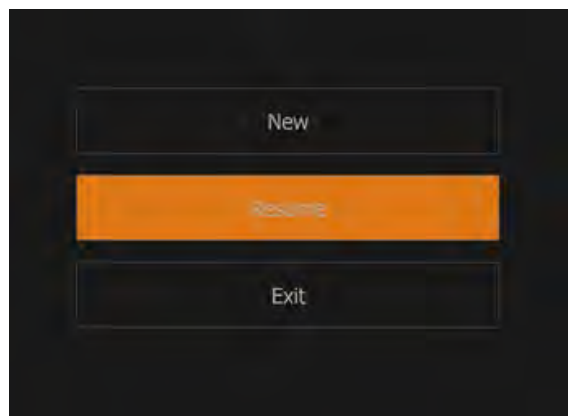


If the icon does not show up on the toolbar, it can be added through the Customize Toolbar function.

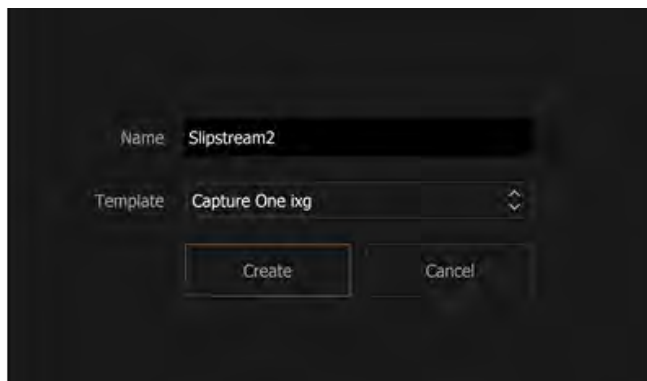
The user interface of Slipstream is kept as simple as possible. Slipstream is designed to be used with a touch screen so all main functions like **Capture**, **Live View**, **Retake**, **Insert**, **Delete** and **Finish** can be operated with a touch of a finger. Standard gestures such as double tapping and pinching are also supported.

Starting a new Slipstream session

On the start screen, you can either choose to start a new project, or continue with the previous. If you choose **Resume**, the Slipstream session will continue to capture image to the same location as used the last time. This is the most practical option for continuing a digitalization project.



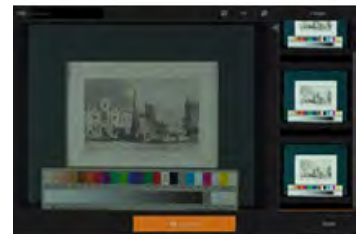
If you click **New**, you are prompted to type in a **Name** for the project and select a **Template**. If you are in doubt which template to use, always ask your administrator. Then click on **Create**.



Starting capturing

You are now ready. Slipstream will automatically activate the live view of the attached camera so that you can see the subject in the **Viewer**. Place the material on the stand and click/press on **Capture**. The captured image will now show up in the **Browser** on the right.

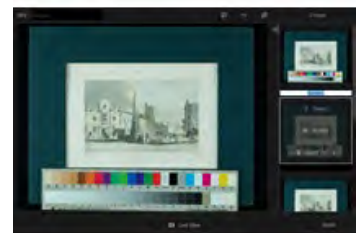
If you need to check whether the live view or captured image is well-focused and sharp, you can zoom in by clicking/pressing on the plus loupe icon at the top right corner under the Viewer. Click/press on the minus loupe icon to see the entire live view or image in the **Viewer** again. As with many touch screen based applications, the basic actions such as pinch, swipe and double-tap are also supported for zooming in/out or toggling between **100%** and **Fit** magnifications.



Adding a text description

If you want to add a text description of the image that you are about to capture, enter that by clicking in the **Add Title** field in the top left corner of the screen.

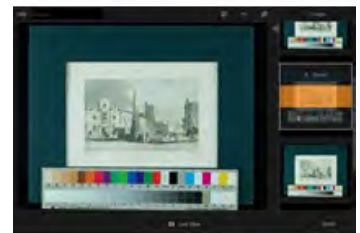
You also have the option to add a text description to any image that has already been taken by clicking/pressing on **Add Title....** under the image and then enter the text.



Retaking a capture

If there is an issue with a capture image, it might for example be out of alignment or include part of a hand, select the image in the **Browser**. You now get 3 options. You can just **Delete** the image, but most of the time it makes more sense to choose **Retake**, which means that the currently selected image will be overwritten. Live View will automatically be activated again, then click/press **Retake** under to Viewer to replace the image.

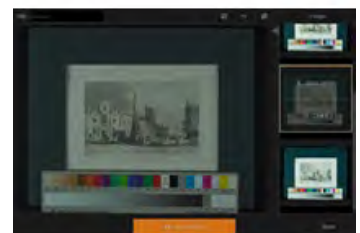
When ready to capture again, click/press on **Live View** to activate the live view feed and click/press on **Capture** to continue with the capturing process. The next captured image will automatically be placed at the end in the Browser.



Inserting a new capture

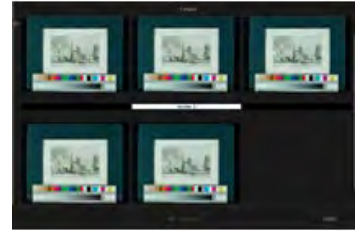
If you by accident missed to capture a specific page in a book and want to ensure that the pages are captured in the correct order, select the captured image in the **Browser** of the page after the missed one. Then choose **Insert Before** and click/press **Insert Before** under to **Viewer** and capture the missed page.

When ready the capture again, click/press on **Live View** to activate the live view feed and click/press on **Capture** to continue with the capturing process. The next captured image will automatically be placed at the end in the Browser.



Slipstream viewing modes

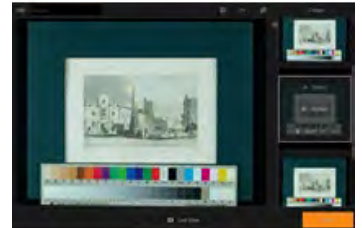
If you need to expand the **Browser** area with the thumbnails to see more images, click/press on the triangle, and you will expand the Browser to get a grid overview of multiple images. To return to a minimized Browser area on the right with a large **Viewer**, click/press on the triangle again. The divider line can be manually dragged to adjust the browser layout or to allow using half of the screen for Live View and the other half for thumbnails.



Finishing the Slipstream session

Once done with capturing all the images, click/press the **Finish** button.

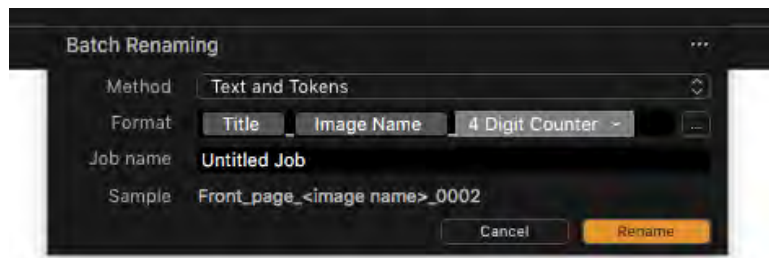
Then click/press the **Exit** button to return to the normal Capture One user interface.



Post processing by the Administrator

In order to fuse the text descriptions of the images entered by the Operator into the file names, the Administrator needs to rename the files with either the **Batch Rename Images** feature or by rename the files during export with **Output Naming** tool.

Select all the captured images and then choose **File > Batch Rename Images...** Make sure to select **Text and Tokens** from the **Method** drop-down menu. You can construct the naming in a lot of different ways with Tokens, but it is important on add the **Title** token to the **Format** field to ensure that the Operator entered text is transferred to the file name.

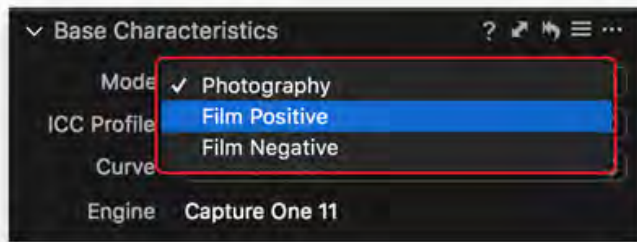


You can also rename the files during export with **Output Naming** tool. Remember to include the **Title** token.

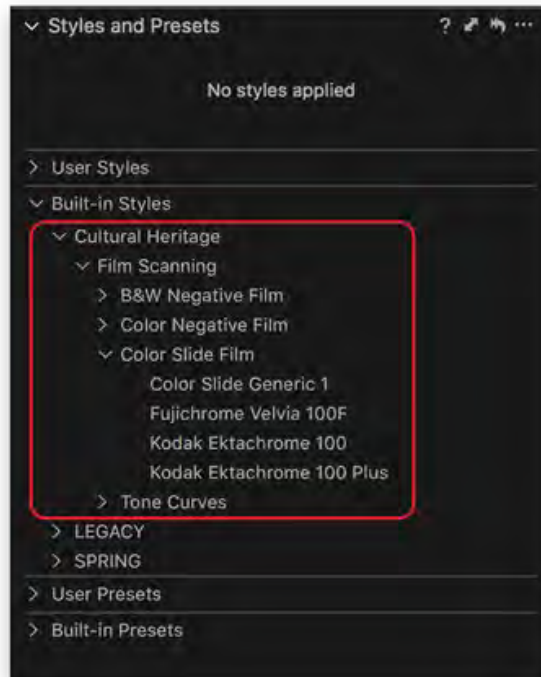


You can read more about the **Output Naming** tool [here](#) and working with **Process Recipes** for image export [here](#).

There is a number of Cultural Heritage-specific features that are only available on the Capture One CH version for Mac. These include the **Auto Crop** feature to crop the images automatically, selecting **Film Positive** or **Film Negative** reproduction modes in the **Base Characteristics** tool.



The Capture One CH version on Mac also includes Cultural Heritage specific Styles that can be selected from the **Styles and Presets** tool.



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Capture One Glossary

The glossary contains an Alphabetical list of terms used in the application and their definition. This glossary is divided in two (as some terms are only relevant depending on your workflow. Choose either Session or Catalog Glossary from the links to view a list of technical terms:

[Catalog Users Glossary](#)

[Session Users Glossary](#)



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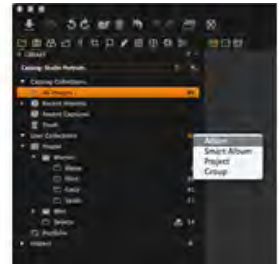
Catalog Users Glossary

- Album
- Catalog
- Export
- Groups
- Hot folder
- Processing
- Projects
- Smart album
- Selects collection
- Tethered
- Tokens
- Variant

Album

An album allows the user arbitrarily create collections of images. Drag and drop images into an album from the [Browser](#). Albums are virtual, meaning they only contain references back to the file. Therefore the same image can exist in many albums.

Albums are typically used to create collections of favorite images, cull from larger groups or create subsets for further filtering. Any edits applied to an image in one album will be reflected in all other albums that contain the same image.

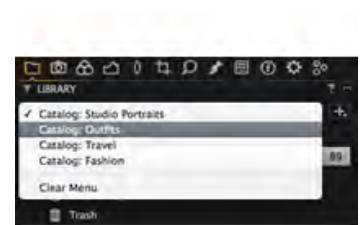


Catalog

A catalog is a method of file organization and viewing in Capture One Pro. It uses a centralized system of storing settings and previews inside a single catalog file.

The location of the actual image files can be on any disc location but can also be placed inside the catalog file itself. It is also possible to shoot directly into a catalog from a supported tethered camera. There are many ways to implement Catalogs in your workflow, giving you the freedom of choice to create the image library for your needs.

Once image files are imported to a catalog, further organization takes place using user defined elements: Projects, Albums, Smart Albums and Groups. The folders section is used as an overview as to the location of the original image files in the file system registered in the catalog.



Export

Export converts the variant to a final file (e.g. Tiff or Jpeg). It has, ultimately, the same function as "Processing". For Express users, Export is the only option to convert to final file. Pro users can use either method.

Groups

A Group is a organizing item used within a catalog. It can not show images on its own. It can contain other Groups, Projects, Albums, and Smart albums.



Hot folder

If Capture One does not provide tethered support for a camera, it is possible to shoot tethered using a camera's proprietary software and a Hot Folder. A Hot Folder, in essence, will make Capture One auto select the newest images added to a (capture) folder.



Processing

The term Processing is inherited from the days of exposing photographic paper and chemically processing the image in a darkroom. It is used in this context to describe the conversion process from the "negative" (RAW) to a "print" (e.g a Tiff or Jpeg). For the purposes of comparison it is the equivalent to Export. Processing, however, is more powerful than Export, and with a number of unique features.

Projects

A project (like a group) is an organizational element for catalog users. It can exist on its own or inside a group. It can not show images. The main difference between a Project and a Group is that it is search limited for contained smart albums. A Smart album in a Project can only search other Albums within it, whereas a Smart album within a Group can search the entire catalog.



Smart album

A Smart Album is populated with images based on set search criteria. It is a virtual album, meaning it is only referencing images from other collections that meet that criteria. A Smart Album can (for example), search for all 5 star images in the catalog or session. Its contents will change if you add or remove 5 star images from images in the search. In a Session, all folders that are Favorites will be searched by Smart Albums. When in a Catalog, Smart Albums will search the entire catalog, unless nested in a Project.



Selects collection

The Selects Collection is used within a catalog. It functions in the same way as a Selects Folder although it is worth noting that when images are moved to the Selects Collection it does not need to move them on disk.

It is possible to assign any folder to make it a Selects Collection when you want to quickly transfer images from one folder to another. The Selects Collection function can come in particularly useful when you want to edit and move your best images into a different folder whilst browsing through multiple other image collections.



Tethered

Attaching a camera to the computer via a cable and shooting images directly to the hard drive instead of memory card. Images are shown on screen as soon as they are on the hard drive.

Tokens

Tokens (also referred to as Dynamic locations when used with import and output) are variables which extract some metadata from the file and use it to make up the naming structures of elements in the workflow.

Depending on the tool used Tokens can be used to automate folder structures or name images.

Variant

A variant is used to describe an image in the browser that is somewhere between the RAW file and the final processed file. As Capture One is a non-destructive editor what is shown on screen is effectively a preview/render of the RAW plus adjustments before conversion to the final file.

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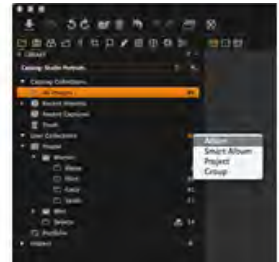
Session Users Glossary

- Album
- Export
- Favorite
- Hot folder
- Processing
- Selects
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An album allows the user arbitrarily create collections of images. Drag and drop images into an album from the [Browser](#). Albums are virtual, meaning they only contain references back to the file. Therefore the same image can exist in many albums.

Albums are typically used to create collections of favorite images, cull from larger groups or create subsets for further filtering. Any edits applied to an image in one album will be reflected in all other albums that contain the same image.



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Export converts the variant to a final file (e.g. Tiff or Jpeg). It has, ultimately, the same function as "Processing". For Express users, Export is the only option to convert to final file. Pro users can use either method.

Favorite

A Favorite is a marker for a folder in a Session workflow. It enables quick and easy access to that folder via the Favorites area of the Library and tells Capture One to include the contents of that folder when searching.

Unlike a Catalog, a Session needs to know which folders to search when using Smart Albums. By marking a folder favorite you also make the contents available to the Smart albums (and only these folders).



Hot folder

If Capture One does not provide tethered support for a camera, it is possible to shoot tethered using a camera's proprietary software and a Hot Folder. A Hot Folder, in essence, will make Capture One auto select the newest images added to a (capture) folder.



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The term Processing is inherited from the days of exposing photographic paper and chemically processing the image in a darkroom. It is used in this context to describe the conversion process from the "negative" (RAW) to a "print" (e.g a Tiff or Jpeg). For the purposes of comparison it is the equivalent to Export. Processing, however, is more powerful than Export, and with a number of unique features.

Selects

The Selects Folder (previously known as the Move-To folder) is automatically created when a new session is started. It is designed to enable users to quickly and easily move image files when culling a shoot. Once an image is selected, users simply need to press the 'move to selects' button on the toolbar (or use the shortcut) and the location of the file will change to this assigned folder.



Session

Sessions are designed to handle single project and are favored for tethered workflow. A Session in its basic form is a template of folders nested in a top folder. Interface into the session is based around a simple file browser concept. The folders in the session are assigned actions by default, for example the Capture folder is assigned to the folder named "Capture", so plugging in a camera and shooting will automatically write images to this folder.



Settings and previews for files in the session folders are stored locally to the folder of RAWs in a sub folder called "CaptureOne". A Session can easily be moved to another computer or another physical disc drive. As all necessary files are saved inside the Session folder by default, you can work on the entire Session from any computer.

Smart album

A Smart Album is populated with images based on set search criteria. It is a virtual album, meaning it is only referencing images from other collections that meet that criteria. A Smart Album can (for example), search for all 5 star images in the catalog or session. Its contents will change if you add or remove 5 star images from images in the search. In a Session, all folders that are favorites will be searched by Smart Albums. When in a Catalog, Smart Albums will search the entire catalog, unless nested in a Project.



Session folders

Sessions Folders form part of any created Session. They are shortcuts to the current active Capture (small camera icon), Output (cog icon), Selects (small looping arrow icon) and Trash (trash can icon) folders for the Session. To see the current active folders, right click on a session folder and then select "show in system folders"

By right clicking on another folder in the library and choosing "set as", these



functions can be moved. The Session folders will then represent a shortcut to the folder chosen by the user.

Tethered

Attaching a camera to the computer via a cable and shooting images directly to the hard drive instead of memory card. Images are shown on screen as soon as they are on the hard drive.

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Phase One medium format cameras, digital backs and lenses are designed to deliver superior quality image capture and investment value. Phase One's Capture One software helps streamline capture and post-production processes for both medium format and DSLR cameras.

Phase One products are known for their quality, flexibility and speed enabling pro photographers shooting in a wide range of formats to achieve their creative visions without compromise.

Phase One is an employee-owned company based in Copenhagen with offices in New York, London, Tokyo, Cologne and Shanghai.

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Telerik

Capture One collects usage information to help us improve our products. This information is completely anonymous, and does not include any personal information, such as name, email address or customer ID. Information is collected unobtrusively without the user being asked to supply information manually.

The collected information can be grouped in two kinds of information: demographic data and usage behavior. Demographic data is collected automatically upon acceptance of the Licence agreement.

Demographic data include:

- The country where the software is running
- Software application version number
- Platform information such as operating system and graphics card, memory size, Camera ID and Lens Usage

Usage information includes:

- How often different features are used
- How often different buttons and menu items are clicked
- Execution time for specific operations
- Error reports

We use the service Telerik Analytics to collect, store and display this information.

Use of personal information

The information helps us evolve our efforts within software development, such as developing new features, debugging, and general user experience improvements. The information is not shared with third parties.

Data protection

Phase One uses the service Telerik Analytics to collect, store and display the collected information ("Data"). Telerik will not review, share, distribute, or reference any Data. Telerik has implemented security measures to help protect against the loss, misuse, and alteration of the Data under our control. Telerik Analytics is hosted in a secure server environment that uses a firewall and other advanced technologies to prevent interference or access from outside intruders. Telerik provides unique user names and passwords that must be entered each time a customer logs on. These safeguards help prevent access that is unauthorized, maintain data accuracy, and ensure the appropriate use of Data.

What information of yours does Phase One collect?

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When you register, we may ask you for information such as your name, e-mail address, shipping address, and product information (such as license code, serial number, make and model).

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If you have registered information about products you use or own with us, you can modify or delete these registrations online via our website or via the latest Capture One software.

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Use of personal information

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