

Capture One

THE PROFESSIONAL CHOICE IN IMAGING SOFTWARE



Release Notes

PHASE**ONE**

Capture One 7.0.2 Release Notes

Capture One 7 is a raw converter and workflow software which enables photographers to reduce the time and effort required to deliver stunning ready-to-use images with excellent color and detail.

Capture One 7 is designed to create the best image quality on the market and holds a series of easy-to-use tools created to match the professional photographer's daily workflow.

Capture One 7 is made by Phase One, the World's leading manufacturer of high-end digital camera systems, in collaboration with the World's leading professional photographers.

Capture One 7 comes in two versions: Pro and DB.

Highlights, version 7.0.2

This is a service release providing a number of bug fixes, in particular for stability, and camera support.

Bug fixes

- Improved stability.
- Canon tethering now supported on OS X 10.8.
- Improved support for pen tablets on Windows 8.

Other changes

- Aligned use of counts in the library tool. No counts for smart albums on Mac, no counts for groups and projects on Win.

Camera support

- File support Canon EOS M (preliminary).
- sRaw and mRaw file support Canon EOS 1D X, 5D Mark III and 6D (preliminary).
- File support for Olympus XZ-2 iHS (preliminary).
- File support for Fuji X-Pro1, X-E1, XF1 (all preliminary).
- File support for Sony SLT-A57 (preliminary).
- Tethered support for Canon EOS 6D.
- Tethered support for Canon EOS M (does not support remote capture).

Highlights, version 7.0.1

This is a service release providing a number of bug fixes, performance enhancements, improvements and camera support.

Bug fixes

- Stability improvements in particular on Mac.
- Fixed issues with slideshow on Windows.
- A large number of other fixes improving quality.

Performance enhancements

- Import speed improved on Mac.
- Fixed a performance issues related to the presence of many styles/presets on Mac.
- Better performance when a catalog references images from many different locations on Mac.
- OpenCL accelerated local adjustments and flip.
- OpenCL support on Mac OS 10.8.
- Reduced memory usage.

Functionality improvements

- Classic clarity method for Capture One 6 look.
- Improved auto white balance.
- Support for 16bit JPEG 2000.

Other changes

- By default images are now imported as referenced.
- Release Notes are a separate download and not accessible directly from the application.

Camera support

- File support for Canon 6D (preliminary).
- File support for Nikon J2 (preliminary).
- Tethered support Nikon D600.
- File support for Leica D-Lux 6 (preliminary).
- File support for Olympus E-PL5 and E-PM2 (both preliminary).
- File support for Panasonic DMC-GH3 (preliminary).
- File support for Pentax K-5 IIs and K-5 II (both preliminary),
- File support for Sony DSC-RX1, NEX-6 and NEX-5R (all preliminary).

Lens support

- Nikon AF-S NIKKOR 14-24mm f/2.8G ED.
- Sigma (Canon EF) APO 50-150mm F2.8 EX DC OS HSM.
- Carl Zeiss (Hasselblad V): Makro-Planar T* 4/120 CFE.

Highlights, version 7.0

This is a major release and the biggest release of Capture One for years adding a number of features and improvements.

Image quality has been greatly improved with a completely revised processing engine. There are a number of changes in the UI but the majority of changes are under the hood automatically providing better looking images. The world's best image quality just got better.

Asset management in the form of catalogs is major new feature and there are a huge number of additions and changes in this area. However, the classic session workflow remains in an even stronger form for all those who love that.

Enjoy.

Image quality features and improvements

- New image processing pipeline.
- Greatly improved high ISO noise reduction.
- Improved highlight recovery.
- New improved HDR tool.
- New improved clarity tool.
- Improved auto white balance.
- Revised custom made defaults.
- Linear Scientific film curves for IQ backs
- Capture One 6 look can be preserved.

Catalog features

- Side-by-side session and catalogs for those who love the classic session workflow.
- All-in-one catalogs with fully managed image files.
- Full support for referenced image files placed outside the catalog.
- Folders tool for easily managing the location of image files by drag-drop.
- Catalogs as documents. Work with multiple catalogs just as easy as any other document.
- Full virtual organization. Organize virtual groups and projects in addition to the existing albums and smart albums.
- Shared catalogs allowing several users of a catalog at once.
- Support for offline image files allowing user to browse, organize and edit metadata even when the original image files are not available.
- Adjustable previews allowing even visual adjustments on offline images.
- Intuitive Media Pro style filtering.
- Drag-drop tagging of images.
- Both sessions and catalogs are cross platform.

Capture and import features

- Live view for DSLR.
- Camera controls for metering, flash mode and mirror position.
- Unified capture and import counters.
- Decrement capture and import counter.
- Reverse sorting in importer.

Select and organize features

- Manual sorting in collections.
- Additional sorting criteria.

Enhance and adjust features and improvements

- Improved lens correction workflow.
- High quality lens profiles for both MF and DSLR systems.
- Separate LCC tool and improved LCC workflow.
- Customize default ICC profiles per camera.
- Horizontal and vertical flip.
- Improved local adjustments workflow.
- Auto mask.
- Gradient mask.
- Fill mask.

Export and print features

- Classic export.
- Export originals.
- Process and export to PNG, JPEG 2000 and JPEG XR.
- Process and export to PSD.
- Process and export to calibrated DNG.
- Capture Pilot Web.

Performance improvements

- Faster browsing
- Faster file operations
- High speed processing using OpenCL.

Other

- Retina display support.

Camera support

- File support for Canon 650D, G15 and S110 (all preliminary).
- File support for Nikon D800E, D600 and D3200.
- File support for Panasonic DMC-LX7 (preliminary).
- File support for Ricoh GXR A16 (preliminary).
- File support for Samsung EX2F.
- File support for Sony SLT-A99, NEX-F3 and DSC-RX100 (all preliminary).

Lens support

This release adds a huge number of lens profiles for both Medium Format and DSLR cameras. Please see the section on lens support later in this document for a complete overview.

System requirements

Capture One 7.0 may run on other and older equipment than what's listed below but to ensure the best possible results we recommend that your computer conforms to the following specifications:

Microsoft® Windows® minimum requirements

- Intel Core 2™ Duo or better.
- 4 GB of RAM
- 10 GB of free hard disk space
- Calibrated color monitor with 1280 x 800, 24 bit resolution at 96dpi screen ruling
- Windows Vista® SP2 64bit, Windows 7® SP1 64bit, Windows 8® 64bit
- Microsoft® .NET Framework version 4.0 (will be installed if not present)
- A PDF reader is needed to read the Release Notes
- Flash is required to view the intro video
- An Internet connection when activating Capture One

Apple® Macintosh® minimum requirements

- Intel Core 2™ Duo or better.
- 4 GB of RAM
- 10 GB of free hard disk space
- Calibrated color monitor with 1280 x 800, 24 bit resolution at 96dpi screen ruling
- OS X 10.8.2, Mac OS X 10.7.5, Mac OS X 10.6.8 or later
- Flash is required to view the intro video
- An Internet connection when activating Capture One

Recommended system requirements

Working with high resolution camera systems, doing certain types of adjustments or doing many things simultaneously may put too much pressure on a minimum requirements system to work properly. In such cases and to optimize performance, please follow the recommendations below:

- Use processors with multiple cores, e.g. Intel Core i7™ or better
- Have 16 GB of RAM or more
- Leave plenty of hard disk space free for your images
- A fast hard disk e.g. a Solid State Disk (SSD)
- A fast Graphics card from NVIDIA or AMD, e.g. AMD Radeon 5870, NVIDIA GTX 680 or Quadro K5000, with updated drivers and a minimum of 2GB RAM

Installation

Capture One 7.0 is compatible with previous 6.x, 5.x and 4.x versions.

If you upgrade from any Capture One 6, Capture One 5 or Capture One 4 version the settings will be migrated. If you upgrade from any version of Capture One 3, the original settings cannot be reused.

If you want to keep your existing versions of Capture One 4, Capture One 5 or Capture One 6 you can install this newer version of Capture One 7 in a different location. However, it is generally recommended that you only install one version of Capture One.

Install on Windows

Capture One includes an easy-to-use installer that will install all the software you need to run the application on a Windows based computer.

To install the software, please follow the procedure below:

1. Load the Capture One CD, or download the application from the Phase One website:
<http://www.phaseone.com>
2. Run the executable software install file.
3. Read and accept the license agreement when presented.
4. Follow the on-screen instructions to complete the installation.

Install on OS X

Capture One includes an easy-to-use installer that will install all the software necessary to run the application on OS X.

To install the software, please follow the procedure below:

1. Load the Capture One CD, or download the application from the Phase One website:
<http://www.phaseone.com>
2. Open the Capture One disk image.
3. Read and accept the license agreement when presented.
4. Drag the Capture One icon to the Applications folder.
5. Start the Capture One application from your Applications folder.

In addition Leaf and Mamiya DM Back users should install specific Leaf drivers before connecting their back by selecting Install Leaf Drivers from the Capture One menu in the application. We recommend that you Quit Capture One and restart the computer after the installation.

RAW file support

Capture One 7.0 DB supports RAW files from the following digital backs/cameras:

- Phase One: IQ180, IQ160, IQ140, P65+, P40+, P45+, P30+, P21+, P25+, P20+, Achromatic+, P45, P30, P25, P21, P20, H 25, H 20, H 101, H 10, H 5, LightPhase.
- Mamiya: DM56, DM40, DM33, DM28, DM22, M31, M22, M18.
- Leaf: Credo 80, Credo 60, Credo 40, Aptus-II 12R, Aptus-II 12, Aptus-II 10R, Aptus-II 10, Aptus-II 8, Aptus-II 7, Aptus-II 6, Aptus-II 5, AFi-II 12, AFi-II 10, AFi-II 7, AFi-II 6.

Additionally Capture One 7.0 Pro supports RAW files from the following digital backs/cameras:

- Leaf: Aptus 75S, Aptus 65S, Aptus 54S, AFi 7, AFi 6, AFi 5, Aptus 75, Aptus 65, Aptus 22, Aptus 17.
- Mamiya: MZD, ZD Back.
- Canon: 1D X, 1D Mark IV, 1Ds Mark III, 1D Mark III, 1D Mark II N, 1Ds Mark II, 1D Mark II, 1Ds, 1D, 5D Mark III, 5D Mark II, 5D, 6D, 7D, 60D, 50D, 40D, 30D, 20D, 10D, 650D/Rebel T4i (preliminary), 600D/Rebel T3i, 550D/Rebel T2i, 500D/Rebel T1i, 450D/Rebel XSi, 400D/Rebel XTi, 350D/Rebel XT, 300D/Rebel, 1100D/Rebel T3, 1000D/Rebel XS, D60, D30, M (preliminary), Pro 1, G1 X, G15 (preliminary), G12, G11, G10, G9, G6, G5, G3, G2, S110 (preliminary), S100 (preliminary), S95, S90.
- Epson: R-D1s, R-D1.
- Fuji: X-Pro1 (preliminary), X-E1 (preliminary), XF1 (preliminary), S5 Pro, S3 Pro, S2 Pro, X100, X10 (preliminary).
- Konica Minolta: Alpha 5 D / Maxxum 5 D / Dynax 5 D, Alpha 7 D / Maxxum 7 D / Dynax 7 D, A1, A2.
- Leica: X1, M9, M8, D-Lux 6 (preliminary), D-Lux 5, D-Lux 4, Digilux 3, Digital Module R for R8 and R9 cameras.
- Nikon: D4, D3s, D3X, D3, D2Xs, D2X, D2Hs, D2H, D1X, D1H, D800, D800E, D700, D600, D300s, D300, D200, D100, D90, D80, D70s, D70, D60, D50, D40X, D40, D7000, D5100, D5000, D3200, D3100, D3000, P7100, P7000, P6000, J2 (preliminary), J1, V1.
- Olympus: E-5, E-PL5 (preliminary), E-PL3, E-PL2, E-PL1, E-PM2 (preliminary), E-PM1, XZ-2 iHS (preliminary), XZ-1, E-620, E-3, E-520, E-510, E-450, E-M5, E-P3, E-P2,

E-P1, E-420, E-410, E-500, E-1, E-10, E-20, E-30, E-330, E-300, E-400, C-7070, C-8080.

- Panasonic: DMC-GX1, DMC-GF3, DMC-GF2, DMC-GF1, DMC-GH3 (preliminary), DMC-GH2, DMC-GH1 DMC-G3, DMC-G2, DMC-G1, DMC-G10, DMC-LX7 (preliminary), DMC-LX5, DMC-LX3, DMC-FZ100, DMC-FZ45.
- Pentax: K-5 IIs (preliminary), K-5 II (preliminary), K-5, K-r, K20D, K10D, K7, KX, K200D, K110D, K100D Super, K100D, K2000/K-m, *istDL2, *istDL, *istD, *istDS2, *istDS, Q. Only PEF files supported.
- Ricoh: GR DIGITAL IV, GR DIGITAL III, GR DIGITAL II, GR DIGITAL, GX100, GX200, GRX S10, GXR P10, GXR A16 (preliminary), GXR A12.
- Samsung: EX2F, NX20, NX11, NX10, NX5, NX210, NX200, NX100, NX1000.
- Sony: DSLR-A900, DSLR-A850, DSLR-A700, DSLR-A580, DSLR-A550, DSLR-A500, DSLR-A450, DSLR-A380, DSLR-A350, DSLR-A330, DSLR-A300, DSLR-A230, DSLR-A200, DSLR-A100, DSC-RX100 (preliminary), DSC-R1, SLT-A99 (preliminary), SLT-A77 (preliminary), SLT-A65, SLT-A57 (preliminary), SLT-A55, SLT-A35, SLT-A33, DSC-RX1 (preliminary), NEX-7, NEX-6 (preliminary), NEX-5R (preliminary), NEX-5N, NEX-5, NEX-F3 (preliminary) NEX-C3, NEX-3.
- Adobe: DNG 1.2 (raw DNG support only). The DNG support is not optimized for specific cameras.

Tethered camera support

Capture One 7.0 DB has tethered support for the following digital backs/cameras:

- Phase One: IQ180, IQ160, IQ140, P65+, P40+, P45+, P30+, P21+, P25+, P20+, Achromatic+, P45, P30, P25, P21, P20, H 25, H 20, H 101, H 10, H 5, LightPhase.
- Mamiya: DM56, DM40, DM33, DM28, DM22, M31, M22, M18.
- Leaf: Credo 80, Credo 60, Credo 40, Aptus-II 12R, Aptus-II 12, Aptus-II 10R, Aptus-II 10, Aptus-II 8, Aptus-II 7, Aptus-II 6, Aptus-II 5, AFi-II 12, AFi-II 10, AFi-II 7, AFi-II 6.

Additionally Capture One 7.0 Pro has tethered support for the following cameras:

- Leaf: Aptus 75S, Aptus 65S, Aptus 54S, AFi 7, AFi 6, AFi 5, Aptus 75, Aptus 65, Aptus 22, Aptus 17.
- Canon: 1D X, 1D Mark IV, 1Ds Mark III, 1D Mark III, 5D Mark III, 5D Mark II, 6D, 7D, 60D, 50D, 40D, 600D/Rebel T3i, 550D/Rebel T2i, 500D/Rebel T1i, 450D/Rebel XSi, 1100D/Rebel T3, 1000D/Rebel XS, M.
Some older Canon models may work to some extent but no support is provided for these.
- Nikon: D4, D3s, D3x, D3, D800, D800E, D700, D600, D300, D300s, D200, D90, D80, D60, D7000, D5100, D5000, D40x, D40.

The extent of tethered support will vary depending on the back/camera connected. Live View may not be supported for all cameras.

Lens support

Capture One 7.0 DB provides profiles for the following lenses:

Phase One: Digital AF 28mm f/4.5 Aspherical, Digital AF 35mm f/3.5, Digital AF 45mm f/2.8, Digital AF 80mm f/2.8, Digital AF 120mm f/4 Macro, Digital AF 150mm f/2.8 IF, Digital Zoom AF 75-150mm f/4.5, 45mm TS f/3.5.

Schneider Kreuznach: LS 28mm f/4.5 Aspherical, LS 55mm f/2.8, LS 80mm f/2.8, LS 110mm f/2.8, LS 150mm f/3.5, LS 240mm f/4.5.

Mamiya: Sekor AF 28mm f/4.5 Aspherical D, AF 35mm f/3.5, AF 45mm f/2.8, Sekor AF 80mm f/2.8 D, Sekor LS 55mm f/2.8 D, Sekor LS 80mm f/2.8 D, Sekor LS 110mm f/2.8 D, Sekor LS 150mm f/3.5.

Carl Zeiss (Hasselblad V): Distagon T* 4/40 IF CFE, Distagon T* 3.5/60 CF, Distagon T* 2.8/80 CF, Makro-Planar T* 4/120 CFE.

Carl Zeiss (Contax 645): Distagon T* 3.5/35, Distagon T* 2.8/45, Distagon T* 3.5/55, Planar T* 2/80, Apo-Makro-Planar T* 4/120, Sonnar T* 2.8/140, Sonnar T* 4/210.

Hasselblad: HC 3.5-4.5/50-110, HCD 4/28, HC 3.5/35, HC 2.8/80, HC 2.2/100, HC 4/120, HC 3.2/150.

Additionally Capture One 7.0 Pro provides profiles for the following lenses:

- Canon: EF 16-35mm f/2.8L II USM, EF 17-40mm f/4L USM, EF 24-70mm f/2.8L USM, EF 24-70mm f/2.8L II USM, EF 24-105mm f/4L IS USM, EF 70-200mm f/2.8L IS USM, EF 70-200mm f/4 L IS USM, EF 100-400mm f/4.5-5.6L IS USM, EF 24mm f/1.4L II USM, EF 50mm f/1.2L USM, EF 50mm f/1.4 USM, EF 50mm f/1.8 II, EF 85mm f/1.8 USM, EF 85mm f/1.2L II USM, EF 100mm f/2.8L Macro IS USM, EF 135mm f/2L USM, EF-S 17-85mm f/4-5.6 IS USM, EF-S 10-22mm f/3.5-4.5 USM, EF-S 17-55mm f/2.8 IS USM, EF-S 18-55mm f/3.5-5.6 IS.
- Nikon: AF-S NIKKOR 14-24mm f/2.8G ED, AF-S NIKKOR 16-35mm f/4G ED VR, AF-S DX NIKKOR 16-85mm f/3.5-5.6G ED VR, AF-S DX Zoom-Nikkor 17-55mm f/2.8G IF-ED, AF-S DX NIKKOR 18-105mm f/3.5-5.6G ED VR, AF-S DX NIKKOR 18-200mm f/3.5-5.6G ED VR, AF-S DX NIKKOR 18-300mm f/3.5-5.6G ED VR, AF-S NIKKOR 24-70mm f/2.8G ED, AF-S NIKKOR 24-85mm f/3.5-4.5G ED, AF-S NIKKOR 24-120mm f/4G ED VR, AF-S NIKKOR 70-200mm f/2.8G ED VR, AF-S NIKKOR 70-200mm f/2.8G ED VR II, AF-S NIKKOR 35mm f/1.4G, AF-S DX NIKKOR 35mm f/1.8G, AF-S NIKKOR 50mm f/1.4G, AF Nikkor 50mm f/1.8D, AF-S NIKKOR 50mm f/1.8G, AF-S NIKKOR 85mm f/1.4G, AF-S NIKKOR 85mm f/1.8G, AF-S VR Micro-Nikkor 105mm f/2.8G IF-ED.
- Pentax: smc PENTAX DA 18-55mm F3.5-5.6 AL WR, smc PENTAX FA 31mm F1.8 Limited
- Sigma (Canon EF): 30mm F1.4 EX DC HSM, 50mm F1.4 EX DG HSM, 85mm F1.4 EX DG HSM, 105mm F2.8 EX DG OS HSM Macro, 150mm F2.8 EX DG OS HSM APO Macro, 10-20mm F3.5 EX DC HSM, 18-200mm F3.5-6.3 II DC OS HSM, 24-70mm F2.8 IF EX DG HSM, APO 50-150mm F2.8 EX DC OS HSM, APO 70-200mm F2.8 EX DG OS HSM, 120-400mm F4.5-5.6 DG APO OS HSM, 150-500mm F5-6.3 APO DG OS HSM.
- Sigma (Nikon F): 70mm F2.8 EX DG Macro, 70-300mm F4-5.6 DG OS, 120-300mm F2.8 EX DG OS APO HSM.
- Sigma (Sony E): 30mm F2.8 EX DN.
- Sony: E 18-55mm f/3.5-5.6 OSS (SEL1855)
- Fixed lens cameras: Olympus XZ-1, Canon PowerShot G1 X, Canon PowerShot G12, Fujifilm FinePix X100

Recommendations and limitations

All users

- When you have disconnected a camera do not reconnect a camera until the Camera tool status changes to "No Camera Attached".

DSLR users

- For Canon 5D, 20D and 350D/Rebel XT: Set the camera's communication setting to PC connection or Normal to enable remote capture. Do not use the Print/PTP or PTP setting.
- Connecting some Canon cameras to the computer after launching Capture One might result in tethered capture being unavailable. If you experience this, connect the camera to the computer prior to launching Capture One.
- Processing/export to DNG is not supported for Fujii X-Trans files.

Back users

- For tethered shooting with Phase One Digital Backs make sure that your system can either supply at least 10W power via Firewire (more than most laptops can supply) or make sure to activate the "Force Battery" setting on the back. Use the 4.5m Phase One Firewire cable.
- For tethered shooting with Leaf and Mamiya DM digital backs make sure that your system can supply at least 12W power via Firewire (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 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.
- Focus controls for iXR and iXA cameras are only supported by IQ and Credo backs.

Known issues

Below you will find a list of known issues for Capture One 7.0 at the time of shipping.

All users

- Browsing folders containing unsupported image files may affect application performance.
- Previews from earlier versions of Capture One may be updated. In some cases, this can affect the application performance the first time images are viewed in this version of Capture One.
- Using e.g. a US laptop keyboard it might be preferable to change some of the standard keyboard shortcuts.
- Working with Nikon D800E images previously opened in Capture One 6 may cause issues.
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Mac users

- Certain versions (e.g. 2.4) of the Logitech Control Center may conflict with the tethered capture functionality of Capture One. We strongly recommend upgrading to the latest version of the Logitech Control Center.
- It is only possible to show the Capture One toolbar in "Icon Only" mode.
- Continuous tethered capturing may become unstable on Mac OS X 10.7 or OS X 10.8 during continued use. Restarting Capture One periodically is recommended as a possible workaround.
- Canon cameras may not reconnect successfully. Restart Capture One as a workaround.

Windows users

- Windows drivers are required for some older models of Canon DSLR cameras to be able to shoot tethered. These drivers are available from Canon's web site.
- If you have Bonjour 2.0.3 installed you may experience problems with Capture Pilot. Bonjour 2.0.2 (shipping with Capture One 7.) and 2.0.4 (shipped with iTunes) have been tested to work with Capture Pilot. To check the version number of Bonjour, go to 'Control Panel' and select 'Programs and Features' ('Add/Remove Programs' on WinXP).
- Nikon D80 and Nikon D200 will not tether on Windows 7.

Troubleshooting and support

For troubleshooting assistance and support please refer to our on-line resources at:
<http://www.phaseone.com/support>

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