



Capture One Pro 9.1

The Professional Choice In Imaging Software

Release notes

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Capture One 9.1 Release Notes

Capture One Pro 9 is a professional RAW converter offering you ultimate image quality with beautiful colors and incredible detail from more than 400 high-end cameras – straight out of the box. It offers state-of-the-art tethered capture, powerful digital asset management, extensive adjustment tools and a flexible workflow.

With an updated processing engine, market-leading performance and powerful new features, Capture One Pro 9 is the professional choice in imaging software. The highly responsive tools give you the power to create stunning images from your camera's RAW files, in a time-saving workflow that can be customized to fit your needs.

Capture One 9 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.

All run modes are included in the one installer and the run mode is determined by the license key used. The trial is also included in the installer and is registered as the full product upon activation. Capture One 9 is available in four modes (these are notated in the camera grid):

- Pro
- DB (digital back only)
- Pro (for Sony)
- Express (for Sony)

The release notes include notes for all releases of Capture One 9.1. Previous release notes can be found in the Phase One download archive.

Best regards,
Team Phase One

9.1.1 Camera Support

- Fuji X-Pro2 (preliminary, lossless compressed not supported)
- Nikon D5 (preliminary, 12 bit uncompressed not supported, Live view not supported)
- Sony RX-10 M3

9.1.1 Bug fixes: Win

Functionality Bugs:

- Export Recipe settings in Export dialog not persisted after restart
- Process Recipe ICC profiles changed to Embed Camera profile after 9.1 install
- “Batch rename” is showing the wrong translation in German
- Unable to import session into catalog
- Dropdown/menu arrow shown in cursor tool selector for tools with only 1 item
- Auto adjust button missing arrow down
- Pick Curve Point cursor tool hidden
- Live view deformed for Sony cameras
- Fixed various crashes

9.1.1 Bug fixes: Mac

Functionality Bugs:

- Library Tool: several stability and performance improvements, and UI fixes (both Sessions and Catalogs)
- Multi-shot images: UI fixes in Metadata Tool
- Next Capture Adjustments tool: fix some tooltips
- Batch rename: fix an issue with names containing “.”
- Crop tool: fix an issue causing the crop unit to revert to inches
- “Open With...”: fix a bug causing some localised versions of CO to prevent selecting a desired app
- AppleScript: fix an issue when setting capture paths
- Live view deformed for Sony cameras
- Fixed various crashes

9.1 New Features

This is a feature release, with new features, camera and lens support and bug fixes. Highlights include:

Improvements

- Under the hood Library refactor (Mac)
- Canon PTP tethering engine
- Re-factored Next Capture Adjustments for Orientation
- Re-factored Next Capture Adjustments to allow Metadata in adjustments
- Improved handling of Tiff assets that include Alpha channels or Layers (view only)
- Various improvements to Keyboard shortcut menu

New Features

- New: Rotatable live view (as part of Orientation refactor)
- New: Color Editor tools: Saturation, Hue and Lightness uniformity for Color Editor
- New: Export/Output Keyword List restrictions
- New: Shortcuts for Reset Counters
- New: Shortcuts for fill/invert mask and change/cycle layers
- New: Shortcuts for “Select by...”
- New: Shortcuts for “Create album by...”
- New: Shortcuts for “Select by same...”

XF compatible features

- Sequence workflow tools:
- Create albums from Sequence ID
- Filters for sequence types, counts, ID
- Name Tokens for sequence types, counts, ID
- Dynamic locations for sequence types, counts, ID

9.1 Camera Support

- Olympus Pen-F
- Olympus Om-D E-M10 Mk II
- Sony A68
- Sony a6300
- Sony RX1R Mk II (revised implementation)
- Ricoh GR II
- Pentax K-S2
- Panasonic G7
- Leica SL

9.1 Lens Support

- Nikon 24-70E VR
- Nikon AF-S DX NIKKOR 18-135mm f/3.5-5.6G IF-ED
- Sigma 150-600mm F5-6.3 DG OS HSM (Nikon mount)
- Sigma 120-300mm F2.8 DG OS HSM | S (Canon mount)
- Carl Zeiss Sonnar T* FE 35 mm F2.8 ZA
- Carl Zeiss Sonnar T* E 24 mm F1.8 ZA
- Panasonic LUMIX G VARIO 14-42mm F3.5-5.6 ASPH. MEGA O.I.S.
- Sony E PZ 16-50 mm F3.5-5.6 OSS (SEL1650) (improved profile)
- Sony FE 24-70 2.8 GM (SEL2470GM)
- Sony FE 85 1.4 GM

9.1 Feature Documentation

Capture One 9.1 is themed to address workflow efficiency and integration with the Phase One XF Camera System.

Under the hood

- Under the hood Library refactor (Mac)

File handling system under the hood has been overhauled to improve stability and performance. In essence, the changes should be invisible in terms of operation but should provide a more robust and quicker performance when viewing collections.

- Canon PTP

The SDK software supplied by Canon has been replaced with a more modern Phase One developed PTP driver to improve stability and performance. In terms of functionality, it works in exactly the same way as before (plug and play) and there is nothing the user has to do differently.

Next Capture Adjustments tool

Next Capture Adjustments for Orientation and Metadata. Some changes have been made to increase efficiency for tethered shooters:

Next Capture adjustments panel now consists of 5 properties (plus one radio box for Phase One hardware)

- ICC profile: option to use default (can be specified in base characteristics tool), Copy From Last or Copy From Primary
- Orientation: When shooting tethered the user can now specify a forced orientation (default, 0, 90, 180, 270). All subsequent captures will use the chosen setting. This is stored as an adjustment so it can be reset. This is especially useful for shooting still life or if the camera is in an overhead position.
- Metadata: Previously, Capture One excluded metadata from the adjustments in a Copy From Last workflow. Now the user can specify to Copy From Last, Copy From Primary or Copy From Last/Primary Specific. Specific opens the clipboard for metadata and you can specify which fields to bring over to the next Capture, from the last.

- All other: refers to all other visual adjustments (Crop, Exposure etc). Again specific is added to allow the user to manually include whatever they wish – useful in some corner cases where some special adjustments (e.g. spot) were automatically excluded from Copy From Last.
- Styles: Specify a saved style and shoot into a “look”.
- Auto Alignment: For Phase One IQ systems only. Data from the virtual horizon tool in the Digital Back can be used to auto level the image on capture.

Improved Tiff handling

Tiffs saved with Alphas or layers (in apps like Affinity or Photoshop) can now be viewed in the Capture One Viewer. Note while viewable, reprocessing an image with layers made in other apps will ignore the layered adjustments.

New features

- Rotatable live view (as part of Orientation refactor)

Live view orientation can now be changed. Orientation automatically matches the Next Capture Adjustments so the Live view feed is the same as the resulting capture.

- Export/Output keyword restrictions

When converting to final output, a number of exclusions can be made to control what ends up in the final file - e.g. sharpening, crop, metadata. The metadata tab in output now allows for individual control of which keyword lists make it to the final file. Ideal for limiting a global vocabulary for certain uses or stock libraries.

- Color Editor: Saturation and Lightness uniformity added to Skin Tone tool

The Skin Tone tool for the Color Editor has been expanded to allow saturation and lightness uniformity of color (in addition to hue that was in previous releases). Uniformity logic works by making a pick of the color (to base adjustments on) - then expanding the color pick bounds to include the hues to be corrected. As the slider is moved to the right, the hues in the selection are aligned closer to the selected point.

As the Color Editor wheel only represents hue and saturation, UI elements similar to the color balance wheels are added to the Color Editor skin tone tab - These work slightly differently to color balance though, instead allowing adjustment of the lightness and saturation value of the selected point to base adjustments on.

Shortcuts

- Shortcuts for Reset Counters

Edit>Counters menu now contains options for resetting all counters used in Capture One workflow. You can assign shortcuts to these options in the Capture One>Edit Keyboard Shortcuts menu

- Shortcuts for Fill/Invert Mask and Cycle layers

There are no menu options for these shortcuts, but you can assign shortcuts in the Capture One>Edit Keyboard Shortcuts menu under "Other".

- Shortcuts for "Select by..."

Edit>Select by... returns to the workflow. Edit menu now contains options for selecting all variants in a collection by rating or color tag. You can assign shortcuts to these options in the Capture One>Edit Keyboard Shortcuts menu

- Shortcuts for "Create albums from..."
- Shortcuts for "Select by same..."

These two options are context sensitive - i.e. something has to be selected for it to make sense - and so only exist in the right-click contextual menus for the thumbnail browser. 9.1 adds support for color tags and ratings for both these menu items. These menu options do not exist in the application menu but can be shortcut from the Capture One>Edit Keyboard Shortcuts menu under "Other".

New features (XF Camera System only)

Feature Update #2 (for XF Camera System) contains a number of tools for aiding sequence capture.

Images captured when using the new Time-lapse, HDR Sequence tool or Focus Stack tool on the XF Camera System will tag the RAW files. Capture One 9.1 can use these tags in a number of ways to accelerate workflow and organization in the application. As an additional indicator, images captured with a sequence tool will show a small icon in the lower left corner of the thumbnail to indicate it is part of a series of images.

Tags: For supported files, tags can be seen in the vendor specific area of the metadata tab and consist of the following properties:

- Type: (e.g. HDR, Focus, Time-lapse)
- ID: unique identifier made up of serial and unique counter
- Count: shown as position and total - (e.g. 1/3)

These are combined into two strings in the metadata: Sequence ID and Sequence Info.

Working with Sequences:

The application has a number of tools to help you organize sequences into your workflow.

- Filters: any collection can be filtered: by Sequence ID, count, position or type. To see and add the additional filters click the (...) action menu in the Filters tool and then show/hide filters... to open the filter menu.
- Naming Tokens: images can be named automatically using the Token feature (during, Import, Capture, Batch Rename or Output) for any property of the sequence.
- Dynamic Location Tokens: folders can be made and named on Import or Export based on the file's sequence properties. E.g. shoot 10 HDR sequences and then Import with the Sequence ID Dynamic Location Token to have Capture One make an import sub folder for each bracket.
- Select by same > Sequence: Right click on a Variant > Select By Same... allows you to choose other images with a similar property. 9.1 introduces three options: Color Tag, Rating and Sequence ID. If you have a lot of images from an import and need to find all the associated captures of a particular sequence, then this allows quick selection of the images irrespective of sort order.
- Create Album From Sequence ID: Right click on a Variant > Create Albums From... allows you turn a selection into a virtual collection (album). 9.1 introduces three options: Color Tag, Rating and Sequence ID. You can use this feature in conjunction with the above "Select By Sequence" command to make an album from a selection, or just select the entire import and then "Create Albums From > Sequence ID" - this will make an Album for each sequence in the selection, allowing quick partitioning of sequences.

9.1 Bug fixes: Mac

Functionality Bugs:

- Browsing images in the importer window causes setting files to be saved on disk
- Keywords are added when browsing folders or canceling an import operation
- Import and Pack as EIP: imported images show a "1" at the end of their filenames
- Library: various bugs (performance, crashes, Smart Album handling)
- Camera tool: ISO string badly clipped if too long
- Brush size slider does not respond correctly to mouse scrolls
- Live View: pixelated images appear on some occasions
- Color Editor and Curve tool: undo not always working as expected
- Curve tool: cannot edit curves when loupe tool is selected
- Curve tool: pickers do not always get selected when clicked
- Color Editor: color patches are missing in Express (for Sony)
- Keystone: copy/apply buttons always disabled
- UI cosmetics (especially Keywords and Keyword Library tools)
- Fixed a bug in handling styles for Next Capture Adjustments
- Fixed an orientation bug for Next Capture Adjustments
- Library tool performance and minor fixes
- Fixed crash using IQ3 100MP and FireWire
- Keyword Library handling minor fixes
- Fixed moire persistency for layers
- Fixed an issue for naming duplicate files while batch renaming

9.1 Bug fixes: Win

Functionality Bugs:

- Various crashes and hangs
- Search only allowed a single search string
- Session can not be opened over UNC path
- Importing a catalog does not include all images
- IPTC getting garbled when using Chinese characters
- Main window hangs when trying to recursively import many folders
- "Sort selected by Color Tag" does not work.
- Active Filters in the Filters tool would remain active even if hidden
- Film Grain type drop down disabled when Capture One starts
- Pink color Tag improperly mapped to Photoshop urgency
- When replacing a style, Capture One deletes the style without saving a new file with the changes.
- Sorting of Keywords in the Keyword Library tool is case sensitive
- Cannot delete some Keywords from session in Keyword Library
- Error Exporting Keyword Library to paths containing exotic characters
- Camera tool: pending count slow/not updating when shooting continuously
- Selection points on image will move when panning the image
- Linked Zoom using Zoom slider in Multi-view mode not working
- When creating a Mask from the Color Editor it does not get a selection point
- Local Adjustments: Passing over a hidden selection point changes the cursor
- Temporary file is not deleted when importing a catalog inside another catalog
- Cannot stack built-in Curve presets
- Difficult to Crop from bottom of image
- Variant collapsed state affects initial filters counts
- Camera tool: +/- ISO tab changes size
- All Images not updating after image is processed
- Import of a Session into a Catalog doesn't create a collection under "Recent Imports"
- Next Capture Adjustments - only one Style can be added

9.1 Bug fixes continued: Mac

Functionality Bugs:

- Library tool: improve overall UI performance
- Library tool: a number of cosmetic bugs (display of icons, expand/collapse)
- Next Capture Adjustments: fix handling of Rating and Color Tag
- Next Capture Adjustments: fix handling of Crop when Orientation is set to non-default values
- Filters tool: properly add new filters to a group
- Fix reset of lens distortion when resetting a Variant
- Color Editor: fixed undo/redo
- Mask drawing: fixed a flickering issue appearing when drawing masks after an undo operation
- ICC profile menu: fix a bug causing some custom profiles not to be shown in the menu

Crash bugs:

- Fixed a crash when removing a filter
- Fixed a crash in the Curves tool when dragging and entering keyboard shortcuts
- Fixed a crash when clicking in empty areas of the Keyboard Shortcut Editor
- Fixed a crash when creating/moving collections the Library tool.
- Fixed a crash when processing LCC files

9.1 Bug fixes continued: Win

Functionality Bugs:

- Fixed bug where it was sometimes not possible to remove a Keyword from a Session Keyword Library
- ICC-Profile: naming changes when setting it to default for camera
- Dragging a Session favorite to Albums does not create an Album
- Color Editor: Reset selected tab removes all presets regardless of tab
- Improved global modification of Keywords
- Crop tool does not respond correctly if Next Capture Adjustments is set away from default
- Vignette tool does not reset when Amount title is click-hold
- 'Select by Sequence ID' works as 'Select All' if no ID
- Vignetting tool is disabled by default
- Variants not persisted when making Keyword Library changes in another Collection

System Requirements

We recommend that your computer has at least the minimum specifications outlined below to run Capture One.

Microsoft® Windows® minimum requirements

- Intel® Core™ 2 Duo or better
- 4 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® 64-bit, Windows 10® 64-bit
- Microsoft® .NET Framework version 4.6 (will be installed if not present)
- A PDF reader is needed to read the Release Notes
- An Internet connection is needed 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 1280x800, 24-bit resolution at 96dpi
- Mac OS X 10.10.5 or 10.11.x
- An Internet connection is needed when activating Capture One

Recommended system requirements

If working with high-resolution images and doing calculation-heavy adjustments we recommend the following:

- 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 (100Gb recommended)
- A fast hard disk e.g. a Solid State Disk (SSD)
- A fast Graphics card from NVIDIA or AMD with minimum 2GB RAM



Installation

Capture One is compatible with previous 8.x, 7.x and 6.x versions. It is recommended to migrate images from 5.x and 4.x to version 8.x first, before opening in 9.x

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:

- Download the application from the Phase One website: <http://www.phaseone.com/downloads.aspx>
- Run the executable software install file (.exe)
- Read and accept the license agreement when presented.
- Follow the on-screen instructions to complete the installation.
- Read and accept the license agreement when presented.

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:

- Download the application from the Phase One website: <http://www.phaseone.com/downloads.aspx>
- Open the Capture One disk image (.dmg)
- Drag the Capture One icon to the Applications folder.
- Start the Capture One application from your Applications folder.
- Read and accept the license agreement when presented.

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.



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".
- DNG support not optimized for some cameras.

Other camera users

- The following functionality is not supported for Fujifilm X-trans RAW files: processing/exporting to DNG, auto mask, repair Layers, focus mask and LCC.
- The following functionality is not supported for sRAW/mRAW files: LCC analysis and healing with Repair Layers.

Digital Back users

- Battery charging on IQ systems can cause issues with stability over Thunderbolt adapters or in low power devices such as laptops. Switch charging off in the digital back menu if you suffer repeated disconnections.
- For tethered shooting with Phase One or Credo 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 Aptus and Mamiya DM digital backs make sure that your system can supply at least 12W of power via FireWire (more than most laptops can supply). Use a Leaf or Mamiya FireWire cable and repeater.
- Unless otherwise specified for your Phase One camera system, 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 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.
- Focus controls for iXR and iXA cameras are only supported by IQ and Credo backs.

- Orientation override does not work in live view for Leaf Aptus/AFi backs. Users wishing to lock orientation during live view should use the camera orientation setting.

Known issues

Below you will find a list of known issues for Capture One 9 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.
- If using a non US laptop keyboard it might be preferable to change some of the standard keyboard shortcuts.
- Editing images in external applications other than Adobe Photoshop might result in unexpected behavior.
- Operation under virtualization software (e.g. Parallels, Hackintosh etc) may cause instability. We do not recommend you use these OS configurations.

Mac users

- It is only possible to show the Capture One toolbar in “Icon Only” mode.
- Live View over USB can stall without the use of a repeater.

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 9) 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’.
- Importing a catalog can result in the last picture not getting imported.
- Operation under RAMDisk by Dataram is known to cause issues with disk labeling. Capture One is not supported with this configuration.

Supported Cameras

The appendices below contain the data sheets for supported cameras in Capture One.

The information here is subject to change. Some errors may be omitted. For issues and clarification on any camera listed here, contact Phase One Support via support.phaseone.com

Notes:

Capture One 9 DNG colors

This new feature allows Capture One to treat and display supported camera files that were converted to DNG, as if it was the original format. It must have the original RAW embedded in the DNG. It does not support unsupported formats converted to DNG. Note we do not support Adobe Lens or Color Profiles in this workflow.

Other file support

Tiff: Capture One 9.1 can support Tiff files with alpha channel or layers saved in the file (from other apps like Adobe Photoshop) for viewing purposes only. Reprocessing the image will ignore the alpha channel or layers.

File support limitations:

Smallest supported file: Width and Height must both be larger than 16 px

Largest supported file: Width x Height must be smaller than 40000 x 20000 pixels or sum thereof.

RAW support:

RAW files support is limited to the full camera RAW format unless specified in the table below. Special or auxiliary modes only supported where noted: Pro = (Pro), DB (digital back only) = (DB), Pro (for Sony) = (ProS), Express (for Sony) = (ES)

| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|------------------|------------------|-----------|----------------------------|-------------------------------------|----------------------------|
| IQ3 100MP | Yes | Yes | IIQ 16bit, IIQ L, IIQ S | DB or Pro (9.0.2 or later required) | |
| IQ3 80MP | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| IQ3 60MP | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| IQ3 50MP | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| IQ280 | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| IQ260 | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| IQ260 Achromatic | Yes | No | IIQ L, IIQ S | DB or Pro | No live view |
| IQ250 | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| IQ180 | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| IQ160 | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| IQ160 Achromatic | Yes | No | IIQ L, IIQ S | DB or Pro | No live view |
| IQ150 | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| IQ140 | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| iXU150 | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| P65+ | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| P40+ | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| P45+ | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| P30+ | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| P25+ | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| P21+ | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| P20+ | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| Achromatic+ | Yes | No | IIQ L, IIQ S | DB or Pro | No live view |
| P45 | Yes | Yes* | IIQ L, IIQ S | DB or Pro | Live view upgrade required |
| P30 | Yes | Yes* | IIQ L, IIQ S | DB or Pro | Live view upgrade required |
| P25 | Yes | No | IIQ L, IIQ S, Uncompressed | DB or Pro | |
| P21 | Yes | Yes* | IIQ L, IIQ S | DB or Pro | Live view upgrade required |
| P20 | Yes | No | IIQ L, IIQ S, Uncompressed | DB or Pro | |
| H 25 | Yes | No | IIQ/TIF Uncompressed | DB or Pro | |
| H 20 | Yes | No | IIQ/TIF Uncompressed | DB or Pro | |
| H 101 | Yes | No | IIQ/TIF Uncompressed | DB or Pro | |
| H 10 | Yes | No | IIQ/TIF Uncompressed | DB or Pro | |
| H 5 | Yes | No | IIQ/TIF Uncompressed | DB or Pro | |
| LightPhase | Yes | No | IIQ/TIF Uncompressed | DB or Pro | |

| Model | Tethered Support | Live view | Supported file and compression types | Required run modes | Notes |
|--------------|------------------|-----------|--------------------------------------|--------------------|-------------------------------|
| Credo 80 | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| Credo 60 | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| Credo 50 | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| Credo 40 | Yes | Yes | IIQ L, IIQ S | DB or Pro | |
| Aptus-II 12R | Yes | Yes | MOS compressed/uncompressed | DB or Pro | Only compressed when tethered |
| Aptus-II 12 | Yes | Yes | MOS compressed/uncompressed | DB or Pro | Only compressed when tethered |
| Aptus-II 10R | Yes | Yes | MOS compressed/uncompressed | DB or Pro | Only compressed when tethered |
| Aptus-II 10 | Yes | Yes | MOS compressed/uncompressed | DB or Pro | Only compressed when tethered |
| Aptus-II 8 | Yes | Yes | MOS compressed/uncompressed | DB or Pro | Only compressed when tethered |
| Aptus-II 7 | Yes | Yes | MOS compressed/uncompressed | DB or Pro | Only compressed when tethered |
| Aptus-II 6 | Yes | Yes | MOS compressed/uncompressed | DB or Pro | Only compressed when tethered |
| Aptus-II 5 | Yes | Yes | MOS compressed/uncompressed | DB or Pro | Only compressed when tethered |
| AFi-II 12 | Yes | Yes | MOS compressed/uncompressed | DB or Pro | Only compressed when tethered |
| AFi-II 10 | Yes | Yes | MOS compressed/uncompressed | DB or Pro | Only compressed when tethered |
| AFi-II 7 | Yes | Yes | MOS compressed/uncompressed | DB or Pro | Only compressed when tethered |
| AFi-II 6 | Yes | Yes | MOS compressed/uncompressed | DB or Pro | Only compressed when tethered |

Leaf and Mamiya Legacy

| Model | Tethered Support | Live view | Supported file and compression types | Required run modes | Notes |
|-----------|------------------|-----------|--------------------------------------|--------------------|-------------------------------|
| Aptus 75S | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| Aptus 65S | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| Aptus 54S | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| AFi 7 | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| AFi 6 | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| AFi 5 | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| Aptus 75 | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| Aptus 65 | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| Aptus 22 | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| Aptus 17 | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |

| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|-------|------------------|-----------|-----------------------------|--------------------|-------------------------------|
| DM56 | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| DM40 | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| DM33 | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| DM28 | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| DM22 | Yes | Yes | MOS compressed/uncompressed | Pro | Only compressed when tethered |
| M31 | Yes | No | IIQ L, IIQ S | DB or Pro | |
| M22 | Yes | No | IIQ L, IIQ S | DB or Pro | |
| M18 | Yes | No | IIQ L, IIQ S | DB or Pro | |

| Model | Tethered Support | Live view | File support | Required run modes | Notes |
|---------|------------------|-----------|--------------|--------------------|-------|
| MZD | No | No | MEF | Pro | |
| ZD back | No | No | MEF | Pro | |



| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|--------|------------------|-----------|-----------------------------|---------------------------------------|---|
| a7R II | Yes* | Yes* | ARW compressed/uncompressed | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering + Live View |
| a7R | Yes* | No* | ARW | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering |
| a7S II | Yes* | Yes* | ARW compressed/uncompressed | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering + Live View |
| a7S | Yes* | Yes* | ARW | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering + Live View |
| a7 II | Yes* | Yes* | ARW compressed/uncompressed | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering + Live View |
| a7 | Yes* | No* | ARW | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering |
| a99 | Yes* | No* | ARW | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering |
| a77 II | Yes* | Yes* | ARW | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering + Live View |
| a77 | No | No | ARW | ES, ProS, Pro | |
| a68 | Yes* | Yes* | ARW | ES, ProS, Pro (9.1 or later required) | Pro (for Sony)/Pro required for tethering + Live View |
| a65 | No | No | ARW | ES, ProS, Pro | |
| a58 | No | No | ARW | ES, ProS, Pro | |
| a57 | No | No | ARW | ES, ProS, Pro | |
| a55 | No | No | ARW | ES, ProS, Pro | |
| a37 | No | No | ARW | ES, ProS, Pro | |
| a35 | No | No | ARW | ES, ProS, Pro | |
| a33 | No | No | ARW | ES, ProS, Pro | |
| a900 | No | No | ARW | ES, ProS, Pro | |
| a850 | No | No | ARW | ES, ProS, Pro | |
| a700 | No | No | ARW | ES, ProS, Pro | |
| a580 | No | No | ARW | ES, ProS, Pro | |
| a560 | No | No | ARW | ES, ProS, Pro | |
| a550 | No | No | ARW | ES, ProS, Pro | |
| a500 | No | No | ARW | ES, ProS, Pro | |
| a450 | No | No | ARW | ES, ProS, Pro | |
| a390 | No | No | ARW | ES, ProS, Pro | |
| a380 | No | No | ARW | ES, ProS, Pro | |
| a350 | No | No | ARW | ES, ProS, Pro | |
| a330 | No | No | ARW | ES, ProS, Pro | |
| a300 | No | No | ARW | ES, ProS, Pro | |
| a290 | No | No | ARW | ES, ProS, Pro | |
| a230 | No | No | ARW | ES, ProS, Pro | |
| a200 | No | No | ARW | ES, ProS, Pro | |
| a100 | No | No | ARW | ES, ProS, Pro | |
| a6300 | Yes* | Yes* | ARW | ES, ProS, Pro (9.1 or later required) | Pro (for Sony)/Pro required for tethering + Live View |
| a6000 | Yes* | No* | ARW | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering |
| a5100 | Yes* | No | ARW | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering |
| a5000 | Yes* | No* | ARW | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering |



| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|------------|------------------|-----------|-----------------------------|---|---|
| a3000 | No | No | ARW | ES, ProS, Pro | |
| RX1RM2 | Yes* | Yes* | ARW compressed/uncompressed | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering (revised 9.1) |
| RX1R | No | No | ARW | ES, ProS, Pro | |
| RX1 | No | No | ARW | ES, ProS, Pro | |
| R1 | No | No | ARW | ES, ProS, Pro | |
| RX10 | No | No | ARW | ES, ProS, Pro | |
| RX10M2 | Yes* | Yes* | ARW | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering + Live View |
| RX10M3 | Yes* | Yes* | ARW | ES, ProS, Pro (9.1.1 or later required) | Pro (for Sony)/Pro required for tethering + Live View |
| RX100M4 | Yes* | Yes* | ARW | ES, ProS, Pro | Pro (for Sony)/Pro required for tethering + Live View |
| RX100M3 | No | No | ARW | ES, ProS, Pro | |
| RX100M2 | No | No | ARW | ES, ProS, Pro | |
| RX100 | No | No | ARW | ES, ProS, Pro | |
| NEX-7 | No | No | ARW | ES, ProS, Pro | |
| NEX-6 | No | No | ARW | ES, ProS, Pro | |
| NEX-5T | No | No | ARW | ES, ProS, Pro | |
| NEX-5R | No | No | ARW | ES, ProS, Pro | |
| NEX-5N | No | No | ARW | ES, ProS, Pro | |
| NEX-5 | No | No | ARW | ES, ProS, Pro | |
| NEX-3N | No | No | ARW | ES, ProS, Pro | |
| NEX-F3 | No | No | ARW | ES, ProS, Pro | |
| NEX-C3 | No | No | ARW | ES, ProS, Pro | |
| NEX-3 | No | No | ARW | ES, ProS, Pro | |
| NEX-VG20 | No | No | ARW | ES, ProS, Pro | |
| NEX-VG30 | No | No | ARW | ES, ProS, Pro | |
| NEX-VG900 | No | No | ARW | ES, ProS, Pro | |
| NEX-VG900E | No | No | ARW | ES, ProS, Pro | |
| QX-1 | No | No | ARW | ES, ProS, Pro | |



| Model | Tethered Support | Live view | File support | Required run modes | Notes |
|----------------|------------------|-----------|---------------------|--------------------|-------|
| 1D C | Yes | Yes | CR2 - RAW/mRAW/sRAW | Pro | |
| 1D X | Yes | Yes | CR2 - RAW/mRAW/sRAW | Pro | |
| 1D Mark IV | Yes | Yes | CR2 - RAW/mRAW/sRAW | Pro | |
| 1Ds Mark III | Yes | Yes | CR2 - RAW/mRAW/sRAW | Pro | |
| 1D Mark III | Yes | Yes | CR2 | Pro | |
| 1D Mark II N | No | No | CR2 | Pro | |
| 1Ds Mark II | No | No | CR2 | Pro | |
| 1D Mark II | No | No | CR2 | Pro | |
| 1Ds | No | No | CR2 | Pro | |
| 1D | No | No | CR2 | Pro | |
| 5DS | Yes | Yes | CR2 - RAW/mRAW/sRAW | Pro | |
| 5DS R | Yes | Yes | CR2 - RAW/mRAW/sRAW | Pro | |
| 5D Mark III | Yes | Yes | CR2 - RAW/mRAW/sRAW | Pro | |
| 5D Mark II | Yes | Yes | CR2 - RAW/mRAW/sRAW | Pro | |
| 5D | No | No | CR2 | Pro | |
| 6D | Yes | Yes | CR2 | Pro | |
| 7D | Yes | Yes | CR2 | Pro | |
| 7D Mark II | Yes | Yes | CR2 | Pro | |
| 70D | Yes | Yes | CR2 | Pro | |
| 60D | Yes | Yes | CR2 | Pro | |
| 50D | Yes | Yes | CR2 | Pro | |
| 40D | Yes | Yes | CR2 | Pro | |
| 30D | No | No | CR2 | Pro | |
| 20D | No | No | CR2 | Pro | |
| 10D | No | No | CRW | Pro | |
| 760D/Rebel T6s | Yes | Yes | CR2 | Pro | |
| 750D/Rebel T6i | Yes | Yes | CR2 | Pro | |
| 700D/Rebel T5i | Yes | Yes | CR2 | Pro | |
| 650D/Rebel T4i | Yes | Yes | CR2 | Pro | |
| 600D/Rebel T3i | Yes | Yes | CR2 | Pro | |
| 550D/Rebel T2i | Yes | Yes | CR2 | Pro | |
| 500D/Rebel T1i | Yes | Yes | CR2 | Pro | |
| 450D/Rebel XSi | Yes | Yes | CR2 | Pro | |
| 400D/Rebel XTi | No | No | CR2 | Pro | |
| 350D/Rebel XT | No | No | CR2 | Pro | |
| 300D/Rebel | No | No | CRW | Pro | |



| Model | Tethered Support | Live view | File support | Required run modes | Notes |
|-------------------|------------------|-----------|--------------|--------------------|-------|
| 100D/Rebel SL1 | No | No | CR2 | Pro | |
| 1200D/Rebel T5 | Yes | Yes | CR2 | Pro | |
| 1100D/Rebel T3 | Yes | Yes | CR2 | Pro | |
| 1000D/Rebel XS | Yes | Yes | CR2 | Pro | |
| 100D/Rebel SL1 | Yes | Yes | CR2 | Pro | |
| D60 | No | No | CRW | Pro | |
| D30 | No | No | CRW | Pro | |
| M | No | No | CR2 | Pro | |
| M3 | No | No | CR2 | Pro | |
| Pro 1 | No | No | CRW | Pro | |
| G7X | No | No | CR2 | Pro | |
| G1 X mk II | No | No | CR2 | Pro | |
| G1 X | No | No | CR2 | Pro | |
| G16 | No | No | CR2 | Pro | |
| G15 (preliminary) | No | No | CR2 | Pro | |
| G12 | No | No | CR2 | Pro | |
| G11 | No | No | CR2 | Pro | |
| G10 | No | No | CR2 | Pro | |
| G9 | No | No | CR2 | Pro | |
| G6 | No | No | CRW | Pro | |
| G5 | No | No | CRW | Pro | |
| G3 | No | No | CRW | Pro | |
| G2 | No | No | CRW | Pro | |
| S120 | No | No | CR2 | Pro | |
| S110 | No | No | CR2 | Pro | |
| S100 | No | No | CR2 | Pro | |
| S95 | No | No | CR2 | Pro | |
| S90 | No | No | CR2 | Pro | |



| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|-------|------------------|-----------|---------------------------------------|-------------------------------|-----------------------------------|
| D5 | Yes | No | NEF (Preliminary) | Pro (9.1.1 or later required) | Preliminary. See notes |
| D4s | Yes | Yes | NEF (12bit/14bit/Comp/Uncomp), RAW-M) | Pro | RAW-S not supported |
| D4 | Yes | Yes | NEF (12bit/14bit/Comp/Uncomp), RAW-M) | Pro | RAW-S not supported |
| DF | Yes | Yes | NEF | Pro | |
| D3s | Yes | Yes | NEF | Pro | |
| D3X | Yes | Yes | NEF | Pro | |
| D3 | Yes | Yes | NEF | Pro | |
| D2Xs | No | No | NEF | Pro | |
| D2X | Yes* | No | NEF | Pro | Tethered support for Windows only |
| D2Hs | No | No | NEF | Pro | |
| D2H | No | No | NEF | Pro | |
| D1X | No | No | NEF | Pro | |
| D1H | No | No | NEF | Pro | |
| D810 | Yes | Yes | NEF | Pro | |
| D810A | No | No | NEF (12bit/14bit/Comp/Uncomp), RAW-M) | Pro | RAW-S not supported |
| D800 | Yes | Yes | NEF (12bit/14bit/Comp/Uncomp), RAW-M) | Pro | RAW-S not supported |
| D800E | Yes | Yes | NEF (12bit/14bit/Comp/Uncomp), RAW-M) | Pro | RAW-S not supported |
| D750 | Yes | Yes | NEF | Pro | |
| D700 | Yes | Yes | NEF | Pro | |
| D610 | Yes | Yes | NEF | Pro | |
| D600 | Yes | Yes | NEF | Pro | |
| D300s | Yes | Yes | NEF | Pro | |
| D300 | Yes | Yes | NEF | Pro | |
| D200 | Yes* | No | NEF | Pro | Tethered support for Windows only |
| D100 | No | No | NEF | Pro | |
| D90 | Yes | Yes | NEF | Pro | |
| D80 | Yes | No | NEF | Pro | |
| D70s | No | No | NEF | Pro | |
| D70 | No | No | NEF | Pro | |
| D60 | Yes | No | NEF | Pro | |
| D50 | No | No | NEF | Pro | |
| D40X | Yes | No | NEF | Pro | |
| D40 | Yes | No | NEF | Pro | |
| D7200 | Yes | Yes | NEF | Pro | |
| D7100 | Yes | Yes | NEF | Pro | |
| D7000 | Yes | Yes | NEF | Pro | |
| D5500 | Yes | Yes | NEF | Pro | |



| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|-----------|------------------|-----------|--------------|--------------------|-------|
| D5300 | Yes | Yes | NEF | Pro | |
| D5200 | Yes | Yes | NEF | Pro | |
| D5100 | Yes | Yes | NEF | Pro | |
| D5000 | Yes | Yes | NEF | Pro | |
| D3300 | No | No | NEF | Pro | |
| D3200 | No | No | NEF | Pro | |
| D3100 | No | No | NEF | Pro | |
| D3000 | No | No | NEF | Pro | |
| P330 | No | No | NEF | Pro | |
| P340 | No | No | NEF | Pro | |
| P7800 | No | No | NEF | Pro | |
| P7700 | No | No | NEF | Pro | |
| P7100 | No | No | NEF | Pro | |
| P7000 | No | No | NEF | Pro | |
| P6000 | No | No | NEF | Pro | |
| 1 AW1 | No | No | NEF | Pro | |
| J4 | No | No | NEF | Pro | |
| J3 | No | No | NEF | Pro | |
| J2 | No | No | NEF | Pro | |
| J1 | No | No | NEF | Pro | |
| V3 | No | No | NEF | Pro | |
| V2 | No | No | NEF | Pro | |
| V1 | No | No | NEF | Pro | |
| S1 | No | No | NEF | Pro | |
| Coolpix A | No | No | NEF | Pro | |



| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|----------------------|------------------|-----------|--------------|-----------------------------|-------|
| Leica SL | No | No | DNG native | Pro (9.1 or later required) | |
| M (Typ 240) | No | No | DNG native | Pro | |
| X1 | No | No | DNG native | Pro | |
| C (Typ 112) | No | No | RWL | Pro | |
| D-Lux 5 | No | No | RWL | Pro | |
| M (Typ 220) | No | No | DNG native | Pro | |
| M-Monochrom | No | No | DNG native | Pro | |
| X (Typ 113) | No | No | DNG native | Pro | |
| X2 | No | No | DNG native | Pro | |
| X Vario | No | No | DNG native | Pro | |
| M9 | No | No | DNG native | Pro | |
| M8 | No | No | DNG native | Pro | |
| T (Typ 701) | No | No | DNG native | Pro | |
| V-Lux 4 | No | No | RWL | Pro | |
| D-Lux (Typ 109) | No | No | RWL | Pro | |
| D-Lux 6 | No | No | RWL | Pro | |
| Q (Typ 116) (prelim) | No | No | DNG native | Pro | |
| D-Lux 4 | No | No | RW2 | Pro | |
| Digilux 3 | No | No | RAW | Pro | |
| Digital Module R | No | No | RAW | Pro | |

| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|--------|------------------|-----------|------------------------------|-------------------------------|--|
| X-Pro2 | No | No | RAF (Preliminary- see notes) | Pro (9.1.1 or later required) | LCC, auto mask, export DNG repair layers: Not supported |
| X-T1 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| X-Pro1 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| X100T | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| X10 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| XQ1 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| X-A1 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| X-A2 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| X-M1 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| X-S1 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| X-E2 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| X-E1 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| XF1 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| X100S | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| X100 | No | No | RAF | Pro | |
| X30 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| X20 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| XT10 | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| S5 Pro | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| S3 Pro | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |
| S2 Pro | No | No | RAF | Pro | LCC, auto mask, export DNG, repair layers: Not supported |

| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|-------------|------------------|-----------|--------------|-----------------------------|-----------------------------|
| E-1 | No | No | ORF | Pro | |
| E-M1 | No | No | ORF | Pro | |
| E-M5 II | No | No | ORF | Pro | High res mode not supported |
| E-M5 | No | No | ORF | Pro | |
| E-M10 | No | No | ORF | Pro | |
| E-M10 Mk II | No | No | ORF | Pro (9.1 or later required) | |
| Pen-F | No | No | ORF | Pro (9.1 or later required) | |
| Stylus 1 | No | No | ORF | Pro | |
| E-5 | No | No | ORF | Pro | |
| E-P5 | No | No | ORF | Pro | |
| E-PL7 | No | No | ORF | Pro | |
| E-PL5 | No | No | ORF | Pro | |
| E-PL3 | No | No | ORF | Pro | |
| E-PL2 | No | No | ORF | Pro | |
| E-PM2 | No | No | ORF | Pro | |
| E-PM1 | No | No | ORF | Pro | |
| XZ-2 iHS | No | No | ORF | Pro | |
| XZ-1 | No | No | ORF | Pro | |
| XZ-10 | No | No | ORF | Pro | |

| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|--------|------------------|-----------|--------------|--------------------|-------|
| E-620 | No | No | ORF | Pro | |
| E-3 | No | No | ORF | Pro | |
| E-520 | No | No | ORF | Pro | |
| E-510 | No | No | ORF | Pro | |
| E-450 | No | No | ORF | Pro | |
| E-P3 | No | No | ORF | Pro | |
| E-P2 | No | No | ORF | Pro | |
| E-P1 | No | No | ORF | Pro | |
| E-420 | No | No | ORF | Pro | |
| E-410 | No | No | ORF | Pro | |
| E-500 | No | No | ORF | Pro | |
| E-10 | No | No | ORF | Pro | |
| E-20 | No | No | ORF | Pro | |
| E-30 | No | No | ORF | Pro | |
| E-330 | No | No | ORF | Pro | |
| E-300 | No | No | ORF | Pro | |
| E-400 | No | No | ORF | Pro | |
| C-7070 | No | No | ORF | Pro | |
| C-8080 | No | No | ORF | Pro | |
| TG-4 | No | No | ORF | Pro | |



| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|----------------|------------------|-----------|--------------|-----------------------------|-------|
| GR | No | No | DNG native | Pro | |
| GR II | No | No | DNG native | Pro (9.1 or later required) | |
| GR DIGITAL II | No | No | DNG native | Pro | |
| GX200 | No | No | DNG native | Pro | |
| GXR A16 | No | No | DNG native | Pro | |
| GR DIGITAL IV | No | No | DNG native | Pro | |
| GR DIGITAL III | No | No | DNG native | Pro | |
| GR DIGITAL | No | No | DNG native | Pro | |
| GX100 | No | No | DNG native | Pro | |
| GRX S10 | No | No | DNG native | Pro | |
| GXR P10 | No | No | DNG native | Pro | |
| GXR A12 | No | No | DNG native | Pro | |

| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|--------|------------------|-----------|--------------|-----------------------------|-------|
| GX8 | No | No | RW2 | Pro | |
| GX7 | No | No | RW2 | Pro | |
| GX1 | No | No | RW2 | Pro | |
| GF7 | No | No | RW2 | Pro | |
| GF6 | No | No | RW2 | Pro | |
| GF5 | No | No | RW2 | Pro | |
| GF3 | No | No | RW2 | Pro | |
| GF2 | No | No | RW2 | Pro | |
| GF1 | No | No | RW2 | Pro | |
| GM5 | No | No | RW2 | Pro | |
| GM1 | No | No | RW2 | Pro | |
| GH4 | No | No | RW2 | Pro | |
| GH3 | No | No | RW2 | Pro | |
| GH2 | No | No | RW2 | Pro | |
| GH1 | No | No | RW2 | Pro | |
| G7 | No | No | RW2 | Pro (9.1 or later required) | |
| G6 | No | No | RW2 | Pro | |
| G5 | No | No | RW2 | Pro | |
| G3 | No | No | RW2 | Pro | |
| G2 | No | No | RW2 | Pro | |
| G1 | No | No | RW2 | Pro | |
| G10 | No | No | RW2 | Pro | |
| LX100 | No | No | RW2 | Pro | |
| LX7 | No | No | RW2 | Pro | |
| LX5 | No | No | RW2 | Pro | |
| LX3 | No | No | RW2 | Pro | |
| FZ72 | No | No | RW2 | Pro | |
| FZ45 | No | No | RW2 | Pro | |
| FZ200 | No | No | RW2 | Pro | |
| FZ150 | No | No | RW2 | Pro | |
| FZ1000 | No | No | RW2 | Pro | |
| FZ100 | No | No | RW2 | Pro | |
| LF1 | No | No | RW2 | Pro | |

PENTAX

| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|-------------|------------------|-----------|--------------|-----------------------------|--------------------------------|
| K-01 | No | No | | Pro | |
| K-30 | No | No | | Pro | |
| K110D | No | No | | Pro | |
| MX-1 | No | No | | Pro | |
| K-3 | No | No | PEF | Pro | PEF only |
| K-3 II | No | No | | Pro | Pixel shift mode not supported |
| K-5 IIs | No | No | | Pro | |
| K-5 II | No | No | | Pro | |
| K-5 | No | No | | Pro | |
| K50 | No | No | | Pro | |
| K-S2 | No | No | | Pro (9.1 or later required) | |
| K-r | No | No | | Pro | |
| K20D | No | No | | Pro | |
| K10D | No | No | | Pro | |
| K7 | No | No | | Pro | |
| KX | No | No | | Pro | |
| K200D | No | No | | Pro | |
| K100D Super | No | No | | Pro | |
| K100D | No | No | | Pro | |
| K2000/K-m | No | No | | Pro | |
| *istD | No | No | | Pro | |
| *istDL2 | No | No | | Pro | |
| *istDL | No | No | | Pro | |
| *istDS2 | No | No | | Pro | |
| *istDS | No | No | | Pro | |
| Q10 | No | No | | Pro | |
| Q7 | No | No | | Pro | (FW 1.0.0 Only) |
| Q | No | No | PEF | Pro | PEF only |



| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|--------|------------------|-----------|--------------|--------------------|-------|
| NX1 | No | No | SRW | Pro | |
| NX11 | No | No | SRW | Pro | |
| NX3000 | No | No | SRW | Pro | |
| NX2000 | No | No | SRW | Pro | |
| NX30 | No | No | SRW | Pro | |
| NX20 | No | No | SRW | Pro | |
| NX10 | No | No | SRW | Pro | |
| NX5 | No | No | SRW | Pro | |
| NXMini | No | No | SRW | Pro | |
| NX300 | No | No | SRW | Pro | |
| NX210 | No | No | SRW | Pro | |
| NX200 | No | No | SRW | Pro | |
| NX100 | No | No | SRW | Pro | |
| NX1000 | No | No | SRW | Pro | |
| EX2F | No | No | SRW | Pro | |



| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|-----------|------------------|-----------|--------------|--------------------|-------|
| Alpha 5 D | No | No | MRW | Pro | |
| Alpha 7 D | No | No | MRW | Pro | |
| A1 | No | No | MRW | Pro | |
| A2 | No | No | MRW | Pro | |

Other

| Model | Tethered Support | Live view | File Support | Required run modes | Notes |
|------------|------------------|-----------|--------------|--------------------------------|---------------------------------|
| Cinema DNG | N/A | N/A | N/A | Pro | |
| Linear DNG | N/A | N/A | N/A | Pro | |
| DNG 1.4 | N/A | N/A | N/A | Pro | |
| Epson RD1 | No | No | DNG | Pro | |
| Epson RD1s | No | No | DNG | Pro | |
| DxO One | No | No | DNG | Pro (9.0.1 or later required.) | Multi shoot mode not supported. |

Phase One Lens Profiles (645)

Phase One

| Focal plane lenses | Leaf shutter lens profiles |
|------------------------------------|----------------------------------|
| Digital AF 28mm f/4.5 Aspherical | LS 28mm f/4.5 Aspherical |
| Digital AF 35mm f/3.5 | LS 35mm f/3.5 (Blue Ring) |
| Digital AF 45mm f/2.8 | LS 40-80mm f/4.0-5.6 |
| Digital AF 80mm f/2.8 | LS 55mm f/2.8 |
| Digital AF 150mm f/2.8 IF | LS 75-150mm f/4-5.6 |
| Digital AF 150mm (2x Tele) f/5.6 | LS 80mm f/2.8 |
| Digital AF 120mm f/4 Macro | LS 110mm f/2.8 |
| Digital Zoom AF 75-150mm f/4.5 | LS Macro 120mm f/4.0 (Blue Ring) |
| MF 120mm f/4 Macro | LS 150mm f/3.5 |
| Schneider-Kreuznach 120mm TS f/3.5 | LS 150mm (2x Tele) f/7.0 |
| | LS 240mm f/4.5 |
| | LS 240mm (2x Tele) f/9.0 |

Mamiya Lens Profiles (645)

Mamiya

| Focal plane lenses | Leaf shutter lens profiles |
|-------------------------------------|--------------------------------|
| Sekor MF 120mm f/4.0 Macro | Sekor LS 55mm f/2.8 D |
| Sekor AF 150mm f/2.8 IF D | Sekor LS 80mm f/2.8 D |
| Sekor AF 150mm IF D (2x Tele) f/5.6 | Sekor LS 110mm f/2.8 D |
| Sekor AF 28mm f/4.5 Aspherical D | Sekor LS 150mm f/3.5 |
| Sekor AF 80mm f/2.8 D | Sekor LS 150mm (2x Tele) f/7.0 |
| A 200mm f/2.8 APO | Sekor LS 240mm f/4.5 |
| A 300mm f/2.8 APO | Sekor LS 240mm (2x Tele) f/9.0 |
| A 500mm f/4.5 APO | |
| AF 35mm f/3.5 | |
| AF 45mm f/2.8 | |

A-Series and Large Format Lens Profiles

Rodenstock

| |
|--------------------------------|
| HR Digaron - S 5.6/23 mm |
| HR Digaron - W 4.0/32 mm |
| HR Digaron - S 4.0/35 mm |
| HR Digaron - W 4.0/40 mm |
| HR Digaron - W 4.0/50 mm |
| HR Digaron - W 4.0/40mm/Aerial |
| HR Digaron - W 4.0/50mm/Aerial |
| HR Digaron - W 5.6/70mm/Aerial |
| HR Digaron - W 5.6/70 mm |

A - Series

| |
|-------------------|
| Alpagon 5.6/23 mm |
| Alpar 4.0/35 mm |
| Alpagon 5.6/70mm |

Hasselblad V and H

Carl Zeiss (Hasselblad V)

Distagon T* 3.5/60 CF

Distagon T* 4/40 IF CFE

Makro-Planar T* 4/120 CFE

Carl Zeiss (Contax 645)

Distagon T* 2.8/45

Distagon T* 3.5/35

Distagon T* 3.5/55

Distagon T* 2.8/80 CF

Planar T* 2/80

Apo-Makro-Planar T* 4/120

Sonnar T* 4/210

Hasselblad H

HC 3.5/35

HC 2.8/80

HC 2.2/100

HC 3.2/150

HC 3.5-4.5/50-110

HC 4/120

HCD 4/28

Sony Lens Profiles

Sony

| |
|---|
| E 18-55mm f/3.5-5.6 OSS (SEL1855) |
| E PZ 16-50 mm F3.5-5.6 OSS (SELP1650) |
| E 30mm F3.5 Macro (SEL30M35) |
| E 16mm F2.8 (SEL16F28) |
| FE 28-70mm F3.5-5.6 OSS (SEL2870) |
| FE 85 1.4 GM |
| A 50 mm F2.8 Macro (SAL50M28) |
| A Carl Zeiss Distagon T* 24mm F2 ZA SSM (SAL24F20Z) |
| A Carl Zeiss Vario-Sonnar T* 24-70 mm F2.8 ZA SSM (SAL 2470Z) |
| A Carl Zeiss Planar T* 85 mm F1.4 ZA (SAL85F14Z) |
| A 70-300mm F4.5-5.6 G SSM (SAL 70300G) |
| E 50mm F1.8 OSS (SEL50F18) |
| A 100mm F2.8 Macro (SAL100M28) |
| A 85 mm F2.8 SAM (SAL85F28) |
| A 35 mm F1.4G (SAL 35F14G) |
| A Carl Zeiss Vario-Sonnar T* 16-35mm F2.8 ZA SSM (SAL1635Z) |
| A Carl Zeiss Sonnar T* 135 mm F1.8 ZA (SAL 135F18Z) |
| A DT 11-18 mm F4.5-5.6 (SAL1118) |
| A DT 16-50mm F2.8 SSM (SAL1650) |
| Sony DT 18-55mm F3.5-5.6 SAM II |
| FE 24-70 2.8 GM (SEL2470GM) |

Carl Zeiss (Sony E)

| |
|---------------------------------------|
| Zeiss Batis 1.8/85 |
| Zeiss Batis 2/25 |
| Carl Zeiss Sonnar T* FE 35 mm F2.8 ZA |
| Carl Zeiss Sonnar T* E 24 mm F1.8 ZA |

Sigma (Sony E)

| |
|------------------------|
| 30mm F2.8 EX DN |
| 60mm F2.8 DN A |
| A 50mm F1.4 (SAL50F14) |

Canon Lens Profiles

Canon

EF 16-35mm f/2.8L II USM

EF 17-40mm f/4L USM

EF 20mm f/2.8 USM

EF 24-70mm f/2.8L USM

EF 24-70mm f/2.8L II USM

EF 24-70mm f/4L IS USM

EF 24-105mm f/4L IS USM

EF 24mm /1.4L II USM

EF 35mm f/1.4L USM

EF 40mm f/2.8 STM

EF 50mm f/1.2L USM

EF 50mm f/1.4 USM

EF 50mm f/1.8 II

EF 70-200mm f/2.8L IS II USM

EF 70-200mm f/2.8L IS USM

EF 70-200mm f/4 L IS USM

EF 85mm f/1.2L II USM

EF 85mm f/1.8 USM

EF 100mm f/2.8 Macro USM

EF 100mm f/2.8L Macro IS USM

EF 100-400mm f/4.5-5.6L IS USM

EF 135mm f/2L USM

EF 300mm f/4L IS USM

EF-S 10-22mm f/3.5-4.5 USM

EF-S 17-55mm f/2.8 IS USM

EF-S 17-85mm f/4-5.6 IS USM

EF-S 18-135mm f/3.5-5.6 IS STM

EF-S 18-55mm f/3.5-5.6 IS STM

EF-S 18-55mm f/3.5-5.6 IS

Sigma (Canon EF)

8-16mm F4.5-5.6 DC HSM

10-20mm F3.5 EX DC HSM

105mm F2.8 EX DG OS HSM Macro

120-400mm F4.5-5.6 DG APO OS HSM

120-300mm F2.8 DG OS HSM | S

150-500mm F5-6.3 APO DG OS HSM

150mm F2.8 EX DG OS HSM APO Macro

17-50mm F2.8 EX DC OS HSM

17-70mm F2.8-4 DC Macro OS HSM | C

18-200mm F3.5-6.3 II DC OS HSM

18-250mm F3.5-6.3 DC MACRO OS HSM

18-35mm F1.8 DC HSM | A

24-105mm F4 DG OS HSM | Art

24-70mm F2.8 IF EX DG HSM

24mm F1.8 EX DG ASP Macro

28mm F1.8 EX DG ASP Macro

30mm F1.4 EX DC HSM

50mm F1.4 EX DG HSM

50mm F2.8 EX DG Macro

85mm F1.4 EX DG HSM

APO 50-150mm F2.8 EX DC OS HSM

APO 70-200mm F2.8 EX DG OS HSM

10-20mm F4-5.6 EX DC HSM

50- 500mm F4.5-6.3 APO DG OS HSM

70-300mm F4-5.6 APO DG Macro

APO Macro 180mm F2.8 EX DG OS HSM

EF-S 17-85mm f/4-5.6 IS USM

EF-S 18-135mm f/3.5-5.6 IS STM

EF-S 18-55mm f/3.5-5.6 IS STM

EF-S 18-55mm f/3.5-5.6 IS

Canon Lens Profiles

Sigma (Canon EF)

Sigma 24-35mm F2 DG HSM | A

Sigma 50mm F1.4 DG HSM | A

Zeiss (Canon EF)

Zeiss Milvus 21mm F2.8

Zeiss Milvus 35mm F2

Zeiss Milvus 50mm F1.4

Zeiss Milvus 50mm F2

Zeiss Milvus 85mm F1.4

Zeiss Milvus 100mm F2

Nikon Lens Profiles

Nikon

AF NIKKOR 20mm f/2.8D
AF NIKKOR 28-105mm f/3.5-4.5 D IF
AF NIKKOR 35-70mm f/2.8D
AF NIKKOR 35mm f/2D
AF NIKKOR 50mm f/1.8D
AF-S NIKKOR 20mm f/1.8G ED
AF-S DX NIKKOR 16-85mm f/3.5-5.6G ED VR
AF-S DX NIKKOR 18-70mm f/3.5-4.5G IF-ED
AF-S DX NIKKOR 18-105mm f/3.5-5.6G ED VR
Nikon AF-S DX NIKKOR 18-135mm f/3.5-5.6G IF-ED
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 DX NIKKOR 18-55mm f/3.5-5.6G VR
AF-S DX NIKKOR 35mm f/1.8G
AF-S DX Zoom-Nikkor 17-55mm f/2.8G IF-ED
AF-S NIKKOR 14-24mm f/2.8G ED
AF-S NIKKOR 16-35mm f/4G ED VR
AF-S NIKKOR 17-35mm f/2.8 ED
AF-S NIKKOR 24-120mm f/4G ED VR
AF-S NIKKOR 24-70mm f/2.8E ED VR
AF-S NIKKOR 24-70mm f/2.8G ED
AF-S NIKKOR 24-85mm f/3.5-4.5G ED VR
AF-S NIKKOR 24mm f/1.4G ED
AF-S NIKKOR 28-300mm f/3.5-5.6G ED VR
AF-S NIKKOR 28-70mm f/2.8D IF-ED
AF-S NIKKOR 35mm f/1.4G
AF-S NIKKOR 50mm f/1.4G
AF-S NIKKOR 50mm f/1.8G
AF-S NIKKOR 70-200mm f/2.8G ED VR II
AF-S NIKKOR 70-200mm f/2.8G ED VR
AF-S NIKKOR 70-200mm f/4G ED VR
AF-S NIKKOR 85mm f/1.4G
AF-S NIKKOR 85mm f/1.8G
AF-S NIKKOR 58 mm 1.4G
AF-S NIKKOR 35mm f/1.8G ED
AF-S NIKKOR 28mm f2.8ED
AF-S VR Micro-Nikkor 105mm f/2.8G IF-ED
AF-S Micro-Nikkor 60mm f/2.8GED

Nikon

AF-S VR Zoom 70-300mm f/4.5-5.6G IF- ED
AF DC-Nikkor 135mm f/2D
1 NIKKOR 11-27.5mm f/3.5-5.6
1 NIKKOR VR 10-30mm f/3.5-5.6
1 NIKKOR AW 11-27.5mm f/3.5-5.6
1 NIKKOR AW 10mm f/2.8

Sigma (Nikon F)

19mm f2.8 EX DN
20mm F1.8 EX DG ASP RF
24mm F1.4 DG HSM | A
30mm F1.4 DC HSM | A
35mm F1.4 DG HSM | A
70mm F2.8 EX DG Macro
12-24mm F4.5-5.6 DG HSM II
70-300mm F4-5.6 DG OS
120-300mm F2.8 EX DG OS APO HSM
150-600 F5-6.3 DG OS HSM

Carl Zeiss (Nikon F)

Otus 55mm f1.4
Otus 85mm f1.4
Distagon T* 2/35mm ZF.2
Distagon T* 1.4/35mm ZF.2
Zeiss Distagon T* 3.5/18mm ZF.2
Zeiss Distagon T* 2.8/21mm ZF.2
Zeiss Distagon T* 2.8/15mm ZF.2
Zeiss Distagon T* 2/28mm ZF.2
Zeiss Distagon T* 3.5/18mm ZF.2
Zeiss Distagon T* 2.8/25mm ZF.2
Zeiss Distagon T* 2/25mm ZF.2
Zeiss Distagon T* 2.8/25mm ZF.2
Planar T* 1.4/50mm ZF.2
Makro Planar T* 2/50mm ZF.2
Planar T* 1.4/85mm ZF.2
Makro Planar 2/100mm ZF.2
Apo Sonnar T* 2/135mm ZF.2

Olympus Lens Profiles

Olympus

M.ZUIKO DIGITAL 17mm 1:2.8 Pancake
M.ZUIKO DIGITAL 25mm 1:1.8
M.ZUIKO DIGITAL 45mm 1:1.8
M.ZUIKO DIGITAL ED 7-14mm f2.8 PRO
M.ZUIKO DIGITAL ED 12-40mm 1:2.8
M.ZUIKO DIGITAL ED 40-150mm f/2.8 Pro
M.ZUIKO DIGITAL ED 12-50mm 1:3.5- 6.3 EZ
M.ZUIKO DIGITAL ED 12mm 1:2.0
M.ZUIKO DIGITAL ED 17mm 1:1.8
M.ZUIKO DIGITAL ED 60mm 1:2.8 Macro
M.ZUIKO DIGITAL ED 75-300mm 1:4.8-6.7
M.ZUIKO DIGITAL ED 75mm 1:1.8
M.ZUIKO DIGITAL ED 9-18mm 1:4.0-5.6
ZUIKO DIGITAL ED 7-14mm 1:4.0
ZUIKO DIGITAL ED 9-18mm 1:4.0-5.6
ZUIKO DIGITAL 11-22mm 1:2.8-3.5
ZUIKO DIGITAL ED 12-60mm 1:2.8-4.0 SWD
ZUIKO DIGITAL ED 14-35mm 1:2.0 SWD
ZUIKO DIGITAL 14-54mm 1:2.8-3.5 II
ZUIKO DIGITAL ED 50mm 1:2.0 Macro
ZUIKO DIGITAL ED 150mm 1:2.0
ZUIKO DIGITAL ED 300mm 1:2.8.
ZUIKO DIGITAL ED 50-200mm 1:2.8-3.5 SWD
ZUIKO DIGITAL ED 90_250mm 1:2.8
ZUIKO DIGITAL ED 35_100mm 1:2.0

Pentax Lens Profiles

Pentax

SMC-DA 15mm F4 AI Limited
SMC-DA 18-55mm F3.5-5.6 AL WR
SMC-DA 21mm F3.2 AI Limited
SMC-FA 31mm F1.8 Limited
SMC-FA 43mm F1.9 Limited
SMC-DA 70mm F2.4 Limited
SMC-D FA 100mm F2.8 WR

Panasonic Lens Profiles

Panasonic

LUMIX G 14mm F2.5 ASPH.
LUMIX G 20mm F1.7 ASPH.
LUMIX G X VARIO 12-35mm F2.8 ASPH. POWER O.I.S
LUMIX G VARIO 14-42 f3.5-5.6 II ASPH. O.I.S.
M.ZUIKO DIGITAL 14-42mm 1:3.5-5.6 II R
LUMIX G VARIO 14-42mm F3.5-5.6 ASPH. MEGA O.I.S.

Leica Lens Profiles

Leica

50mm f.2 Summicron-M

Fixed Lens Profiles

Fixed Lens cameras

| |
|------------------------------|
| Canon PowerShot G1 X |
| Canon PowerShot G12 |
| Canon PowerShot G15 |
| Canon PowerShot G16 |
| Canon PowerShot S100/S110 |
| Canon PowerShot S120 |
| Fujifilm FinePix X100 |
| Leica D-Lux (Typ 109) |
| Leica X (Typ 113) |
| Nikon COOLPIX A |
| Nikon COOLPIX P340 |
| Nikon COOLPIX P7700 |
| Nikon COOLPIX P7800 |
| Olympus XZ 6-24mm |
| Olympus XZ-10 |
| Panasonic LX100 |
| Ricoh GR |
| Sony Cyber-shot DSC-RX100 II |
| Sony Cyber-shot DSC-RX100 |
| Sony Cyber-shot DSC-RX10 |
| Sony RX1/RX1R |