

# Capture One 8

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RELEASE NOTES

English

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# Capture One 8.1.1 Release Notes

Capture One Pro 8 is a professional RAW converter offering you ultimate image quality with accurate colors and incredible detail from more than 300 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 8 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 8 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 8 is available in four versions:  
Pro, DB, Pro (for Sony) and Express (for Sony).

# Highlights, Capture One 8.1.1

This is a service release providing bug fixes, stability improvements, camera and lens support.

## Bug fixes

- Fixed a bug where Hot Folders were broken
- Fixed a bug where an original inside a catalog couldn't be exported
- Fixed a bug where creating a new session from a template did not work
- Fixed a bug where 3<sup>rd</sup> party catalog imports did not show Folders in the Library tool
- Fixed a bug where Curve settings could not be saved as a preset
- Fixed a few bugs relating to metadata and certain time zones

## Camera support

- File support for Samsung NX1 (preliminary)
- File support for Panasonic LX100
- File support for Panasonic GM5
- File support for Leica X (Typ 113)
- File support for Leica D-Lux (Typ 109)
- File support for Olympus E-PL7

## Lens support

- Rodenstock HR Digaron – W 4.0/40mm/Aerial
- Rodenstock HR Digaron – W 4.0/50mm/Aerial
- Rodenstock HR Digaron – W 5.6/70mm/Aerial
- Panasonic LX100
- Leica X (Typ 113)
- Leica D-Lux (Typ 109)

# Highlights, Capture One 8.1

This is a feature release providing new features, bug fixes, stability improvements, camera and lens support.

## New features

- Editing in Photoshop
- Improved Auto Adjust
- Quick Cursor Tools
- Find/replace renaming
- Additional and improved naming tokens
- Multiple Guides
- Incremental Camera Controls
- Up to 16 Adjustments Layers
- Additional TIFF processing options

## Bug fixes

- Windows: Fixed an issue where browsing images would stop preview generation
- Windows: Improved support for importing, adjusting and processing images with non-English characters in their path
- Mac: Fixed an issue where Export to Originals did not include LCC or ICC profiles
- Mac: Fixed an issue where incorrect dates would be applied to imported images
- Mac: Fixed an issue where using the Spot tool together with a Heal Layer would result in a crash
- Fixed some stability issues
- Fixed 100+ other bugs

## Camera Support

- Support for Phase One A-series cameras
- Live View for Sony A7S, A7R and Sony A7 Mark II
- Tether support for Sony a5100
- File and tether support for Sony A7-II
- Tether support for Canon 7D mark II
- File support for Fujifilm X100T and X30
- File support for Canon G7X
- File support for Panasonic FZ1000
- Improved support for Leica T

## Lens support

- Alpagon 5.6/23 mm
- Alpar 4.0/35 mm
- Alpagon 5.6/70mm
- Rodenstock HR Digaron-S 5.6/23 mm
- Rodenstock HR Digaron-S 4.0/35 mm
- Rodenstock HR Digaron-W 4.0/40 mm
- Rodenstock HR Digaron-W 4.0/50 mm
- Rodenstock HR Digaron-W 5.6/70 mm
- Zeiss Distagon T\* 2/35mm ZF.2
- Zeiss Distagon T\* 1.4/35mm ZF.2
- Zeiss Planar T\* 1,4/50mm ZF.2
- Zeiss Makro Planar T\* 2/50mm ZF.2
- Zeiss Planar T\* 1.4/85mm ZF.2
- Zeiss Makro Planar 2/100mm ZF.2
- Zeiss Apo Sonnar T\* 2/135mm ZF.2
- Canon G7X

# System Requirements

Capture One 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
- Color calibrated monitor with 1280x800, 24-bit resolution at 96dpi screen ruling
- Windows 7® SP1 64-bit, Windows 8® 64-bit
- Microsoft® .NET Framework version 4.5.2 (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 10.9 or 10.10
- An Internet connection is needed when activating Capture One.

## Recommended system requirements

Working with high-resolution images and doing calculation heavy adjustments may put too much pressure on the 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 7950 (Mac) / AMD R9 290 (Win) or newer, with minimum 2GB RAM. We recommend using the Mac Pro (late 2013) containing the dual AMD D700 GPU.

# Installation

Capture One is compatible with previous 7.x, 6.x, 5.x and 4.x versions.

If you upgrade from Capture One 7, 6, 5 or 4 the settings will be migrated. If you upgrade from Capture One 3 the original settings cannot be reused. If you want to keep your existing versions of Capture One you can install this newer version of Capture One 8 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 USB, 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 USB, CD or download the application from the Phase One website: <http://www.phaseone.com>
2. Open the Capture One disk image.
3. Drag the Capture One icon to the Applications folder.
4. Start the Capture One application from your Applications folder.
5. 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 is for raw DNG only is not optimized for specific cameras.

## Other camera users

- 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.
- This functionality is not supported for Fujifilm RAW files: processing/exporting to DNG, auto mask, healing with Repair Layers and LCC.
- This functionality is not supported for sRAW/mRAW files: LCC analysis and healing with Repair Layers.
- Canon Live View: The image is not rotated according to camera orientation, as Canon does not report the orientation during Live View.

## 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 if you suffer repeated disconnections.
- 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.
- 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 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 8 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.
- Editing images in external applications other than Adobe Photoshop might result in unexpected behavior.

## 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 8) 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.

# Supported Cameras

## File Support: Capture One DB

Capture One DB offers file support for the following cameras or digital backs:

Phase One	IQ280	IQ140	P25+	P20
	IQ260	iXU150	P20+	H 25
	IQ260 Achromatic	P65+	Achromatic+	H 20
	IQ250	P40+	P45	H 101
	IQ180	P45+	P30	H 10
	IQ160	P30+	P25	H 5
	IQ160 Achromatic	P21+	P21	LightPhase
	IQ150			
Mamiya	DM56	DM22		
	DM40	M31		
	DM33	M22		
	DM28	M18		
Leaf	Credo 80	Aptus-II 12R	Aptus-II 8	AFi-II 12
	Credo 60	Aptus-II 12	Aptus-II 7	AFi-II 10
	Credo 50	Aptus-II 10R	Aptus-II 6	AFi-II 7
	Credo 40	Aptus-II 10	Aptus-II 5	AFi-II 6

## File Support: Capture One Pro

In addition to the above cameras, Capture One Pro offers file support for the following cameras or digital backs:

Leaf	Aptus 75S	AFi 7	Aptus 75	Aptus 22
	Aptus 65S	AFi 6	Aptus 65	Aptus 17
	Aptus 54S	AFi 5		
Sony	A7R	A850	A200	NEX-6
	A7S	A700	A100	NEX-5T
	A7-II	A580	a6000	NEX-5R
	A7	A560	a5100	NEX-5N
	A99	A550	a5000	NEX-5
	A77 II	A500	a3000	NEX-3N
	A77	A450	RX1R	NEX-F3
	A65	A390	RX1	NEX-C3
	A58	A380	R1	NEX-3
	A57	A350	RX10	NEX-VG20
	A55	A330	RX100 III	NEX-VG30
	A37	A300	RX100 II	NEX-VG900
	A35	A290	RX100	QX-1
	A33	A230	NEX-7	
	A900			

Canon	1D C	7D	350D/Rebel XT	G15 (preliminary)
	1D X	70D	300D/Rebel	G12
	1D Mark IV	60D	100D/Rebel SL1	G11
	1Ds Mark III	50D	1200D/Rebel T5	G10
	1D Mark III	40D	1100D/Rebel T3	G9
	1D Mark II N	30D	1000D/Rebel XS	G6
	1Ds Mark II	20D	100D/Rebel SL1	G5
	1D Mark II	10D	D60	G3
	1Ds	700D/Rebel T5i	D30	G2
	1D	650D/Rebel T4i	M	S120
	5D Mark III	600D/Rebel T3i	Pro 1	S110
	5D Mark II	550D/Rebel T2i	G7X	S100
	5D	500D/Rebel T1i	G1 X mk II	S95
	6D	450D/Rebel XSi	G1 X	S90
7D Mark II	400D/Rebel XTi	G16		
Nikon	D4s	D800E	D50	P330
	D4	D750	D40X	P7800
	DF	D700	D40	P7700
	D3s	D610	D7100	P7100
	D3X	D600	D7000	P7000
	D3	D300s	D5300	P6000
	D2Xs	D300	D5200	1 AW1
	D2X	D200	D5100	J3
	D2Hs	D100	D5000	J2
	D2H	D90	D3300	J1
	D1X	D80	D3200	V2
	D1H	D70s	D3100	V1
	D810	D70	D3000	S1
	D800	D60	P340	Coolpix A
Leica	M (Typ 240)	X1	C (Typ 112)	D-Lux 5
	M (Typ 220)	X Vario	V-Lux 4	D-Lux 4
	M-Monochrom	M9	D-Lux (Typ 109)	Digilux 3
	X (Typ 113)	M8	D-Lux 6	Digital Module R
	X2	T (Typ 701)		
Fujifilm	X-T1	X-S1	X100S	
	XQ1	X-E2	X100	S5 Pro
	X-A1	X-E1	X30	S3 Pro
	X-M1	XF1	X20	S2 Pro
	X-Pro1	X100T	X10	
Olympus	E-M1	E-PL2	E-520	E-1
	E-M5	E-PL1	E-510	E-10
	E-M10	E-PM2	E-450	E-20
	Stylus 1	E-PM1	E-P3	E-30
	E-5	XZ-2 iHS	E-P2	E-330
	E-P5	XZ-1	E-P1	E-300
	E-PL7	XZ-10	E-420	E-400
	E-PL5	E-620	E-410	C-7070
	E-PL3	E-3	E-500	C-8080

Panasonic	GX7 (preliminary)	GM1	G2	FZ1000
	GX1	GH4	G1	FZ72
	GF6 (preliminary)	GH3	G10	FZ45
	GF5	GH2	LX100	FZ200
	GF3	GH1	LX7	FZ150
	GF2	G6	LX5	FZ100
	GF1	G5	LX3	LF1
	GM5	G3		
Pentax	K-01	K-30	K110D	*istD
	MX-1	K-r	K100D Super	*istDS2
	K-3	K20D	K100D	*istDS
	K-5 IIs	K10D	K2000/K-m	Q10
	K-5 II	K7	*istDL2	Q7 (FW 1.0.0 Only)
	K-5	KX	*istDL	Q (PEF Only)
	K50	K200D		
Ricoh	GR	GR DIGITAL II	GX200	GXR A16
	GR DIGITAL IV	GR DIGITAL	GRX S10	GXR A12
	GR DIGITAL III	GX100	GXR P10	
Samsung	NX1	NX11	NX300	NX100
	NX30	NX10	NX210	NX1000
	NX20	NX5	NX200	EX2F

Mamiya: MZD, ZD Back.

Epson: R-D1s, R-D1.

Konica Minolta: Alpha 5 D, Alpha 7 D, A1, A2.

Other files: CinemaDNG, Linear DNG, DNG 1.2

## File Support: Capture One Pro and Express (for Sony)

Capture One Pro (for Sony) and Capture One Express (for Sony) have file support for the Sony cameras above.

## Tethered Support: Capture One DB

Capture One DB has tethered support for these cameras or digital backs:

Phase One	IQ280	IQ140	P25+	P20	
	IQ260	iXU150	P20+	H 25	
	IQ260 Achromatic	P65+	Achromatic+	H 20	
	IQ250	P40+	P45	H 101	
	IQ180	P45+	P30	H 10	
	IQ160	P30+	P25	H 5	
	IQ160 Achromatic	P21+	P21	LightPhase	
	IQ150				
	Mamiya	DM56	DM22		
		DM40	M31		
DM33		M22			
DM28		M18			

Leaf	Credo 80	Aptus-II 12R	Aptus-II 8	AFi-II 12
	Credo 60	Aptus-II 12	Aptus-II 7	AFi-II 10
	Credo 50	Aptus-II 10R	Aptus-II 6	AFi-II 7
	Credo 40	Aptus-II 10	Aptus-II 5	AFi-II 6

## Tether Support: Capture One Pro

In addition to the above cameras, Capture One Pro offers tethered support for the following cameras:

<b>Leaf</b>	Aptus 75S Aptus 65S Aptus 54S	AFi 7 AFi 6 AFi 5	Aptus 75 Aptus 65	Aptus 22 Aptus 17
<b>Sony</b>	A7R A7S	A7-II A7 A99	A77 II a6000	a5100 a5000
<b>Canon</b>	1D C 1D X 1D Mark IV 1D Mark III 1Ds Mark III 5D Mark III 5D Mark II	6D 7D Mark II 7D 70D 60D 50D 40D	700D/Rebel T5i 650D/Rebel T4i 600D/Rebel T3i 550D/Rebel T2i 500D/Rebel T1i	450D/Rebel XSi 1200D/Rebel T5 1100D/Rebel T3 1000D/Rebel XS 100D/Rebel SL1
<b>Nikon</b>	D4s D4 D3s D3X D3 D810 D800	D800E D700 D610 D600 D300s D300 D200 <sup>i</sup>	D90 D80 <sup>ii</sup> D60 D40X D40 D7100	D7000 D5300 D5200 D5100 D5000 DF

## Tether Support: Capture One Pro (for Sony)

Capture One Pro (for Sony) offers tethered support for these cameras:

<b>Sony</b>	A7R A7S	A7-II A7 A99	A77 II a6000	a5100 a5000
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<sup>i</sup> Tethered support for Nikon D200 and D80 is not available on Windows

# Supported Lenses

These are the lenses with automatic lens corrections in Capture One 8:

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 150mm f/2.8 IF	Digital AF 150mm (2x Tele) f/5.6 Digital AF 120mm f/4 Macro Digital Zoom AF 75-150mm f/4.5 MF 120mm f/4 Macro 45mm TS f/3.5
Schneider-Kreuznach	LS 28mm f/4.5 Aspherical LS 40-80mm f/4.0-5.6 LS 55mm f/2.8 LS 75-150mm f/4-5.6 LS 80mm f/2.8 LS 110mm f/2.8 LS 150mm f/3.5 LS 150mm (2x Tele) f/7.0 LS 240mm f/4.5 LS 240mm (2x Tele) f/9.0	
Mamiya	Sekor AF 120mm f/4.0 Macro Sekor MF 120mm f/4.0 Macro Sekor AF 150mm IF D (2x Tele) f/5.6 Sekor AF 150mm f/2.8 IF D Sekor AF 28mm f/4.5 Aspherical D Sekor AF 80mm f/2.8 D Sekor LS 110mm f/2.8 D Sekor LS 150mm (2x Tele) f/7.0 Sekor LS 150mm f/3.5 Sekor LS 40mm IF (2x Tele) f/9.0	Sekor LS 240mm f/4.5 Sekor LS 55mm f/2.8 D Sekor LS 80mm f/2.8 D A 200mm f/2.8 APO A 300mm f/2.8 APO A 500mm f/4.5 APO AF 35mm f/3.5 AF 45mm f/2.8
Alpa	Alpagon 5.6/23 mm Alpar 4.0/35 mm Alpagon 5.6/70mm	
Rodenstock	HR Digaron-S 5.6/23 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 5.6/70 mm HR Digaron – W 4.0/40mm/Aerial HR Digaron – W 4.0/50mm/Aerial HR Digaron – W 5.6/70mm/Aerial
Carl Zeiss (Hasselblad V)	Distagon T* 2.8/80 CF Distagon T* 3.5/60 CF Distagon T* 4/40 IF CFE Makro-Planar T* 4/120 CFE	
Carl Zeiss (Contax 645)	Apo-Makro-Planar T* 4/120 Distagon T* 2.8/45 Distagon T* 3.5/35 Distagon T* 3.5/55	Planar T* 2/80 Sonnar T* 2.8/140 Sonnar T* 4/210



Hasselblad	HC 2.2/100 HC 2.8/80 HC 3.2/150 HC 3.5-4.5/50-110	HC 3.5/35 HC 4/120 HCD 4/28
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 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/2.8L 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
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 18-105mm 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 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/2.8G ED AF-S NIKKOR 24-85mm f/3.5-4.5G ED VR AF-S NIKKOR 24-85mm f/3.5-4.5G ED	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 VR Micro-Nikkor 105mm f/2.8G IF-ED AF-S VR Zoom 70-300mm f/4.5-5.6G IF- ED 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
Pentax	SMC-D FA 100mm F2.8 WR SMC-DA 15mm F4 Al Limited SMC-DA 18-55mm F3.5-5.6 AL WR SMC-DA 21mm F3.2 Al Limited	SMC-DA 70mm F2.4 Limited SMC-FA 31mm F1.8 Limited SMC-FA 43mm F1.9 Limited
Panasonic	LEICA DG SUMMILUX 25mm / F1.4 ASPH LUMIX G 14mm F2.5 ASPH. LUMIX G 20mm F1.7 ASPH.	LUMIX G VARIO 14-42 f3.5-5.6 II ASPH. O.I.S. LUMIX G X VARIO 12-35mm F2.8 ASPH. POWER O.I.S

Olympus	<p>M.ZUIKO DIGITAL 14-42mm 1:3.5-5.6 II R  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 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</p>	<p>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</p>
Sigma (Canon EF)	<p>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  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</p>	<p>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</p>
Sigma (Nikon F)	<p>120-300mm F2.8 EX DG OS APO HSM  20mm F1.8 EX DG ASP RF  35mm F1.4 DG HSM   Art</p>	<p>70-300mm F4-5.6 DG OS  70mm F2.8 EX DG Macro  12-24mm F4.5-5.6 DG HSM II</p>
Sigma (Sony E)	<p>19mm f2.8 EX DN  30mm F2.8 EX DN  60mm F2.8 DN A</p>	
Sony	<p>A 50mm F1.4 (SAL50F14)  E 18-55mm f/3.5-5.6 OSS (SEL1855)  E PZ 16-50 mm F3.5-5.6 OSS (SELP1650)  FE 28-70mm F3.5-5.6 OSS (SEL2870)  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)</p>	
Leica	<p>50mm f/2 Summicron-M</p>	

Zeiss	<p>Otus 55mm f1.4  Otus 85mm f1.4  Distagon T* 2/35mm ZF.2  Distagon T* 1.4/35mm ZF.2  Planar T* 1,4/50mm ZF.2</p>	<p>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</p>
Fixed Lens cameras	<p>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</p>	<p>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-RX10  Sony Cyber-shot DSC-RX100  Sony RX1/RX1R</p>