

Specifications

		LUMIX S1R	LUMIX S1
TYPE			
Type		Digital Single Lens Mirrorless camera	
Lens mount		L-Mount	
Image sensor		35mm full-frame (36.0 x 24.0mm) CMOS sensor	35mm full-frame (35.6mm x 23.8mm) CMOS sensor
Camera effective pixels / Total pixels		47.30 megapixels / 50.44 megapixels	24.20 megapixels / 25.28 megapixels
STILL IMAGE			
Recording file format	Still image	JPEG (DCF, Exif 2.31), RAW, HLG Photo (CTA-2072)	
	6K PHOTO**	6K PHOTO: MP4 (H.265/HEVC, Audio format: AAC (2ch)) *Extracted still images: JPEG (DCF, Exif 2.31)	
	4K PHOTO**	4K PHOTO: MP4 (H.264/MPEG-4 AVC, Audio format: AAC (2ch)) *Extracted still images: JPEG (DCF, Exif 2.31)	
Aspect ratio		4:3 / 3:2 / 16:9 / 1:1 / 65:24 / 2:1	
File size (pixels) in 3:2 when using full-frame lenses		8368x5584 (L), 5952x3968 (M), 4272x2848 (S) High Resolution Mode: 16736x11168 (XL) *RAW file. 6K PHOTO: 5184x3456 / 4K PHOTO: 3504x2336 HLG PHOTO: 6464x4320 (8K-Res.), 3232x2160 (4K-Res.)	6000x4000 (L), 4272x2848 (M), 3024x2016 (S) High Resolution Mode: 12000x8000 (XL) *RAW file 6K PHOTO: 5184x3456 / 4K PHOTO: 3504x2336 HLG PHOTO: 5984x4000 (Full-Res.), 3232x2160 (4K-Res.)
MOTION PICTURE			
Recording file format		MP4: H.264/MPEG-4 AVC (Audio format: LPCM (2ch 48kHz/16-bit), AAC (2ch)) AVCHD Progressive (Audio format: Dolby Audio (2ch)) AVCHD (Audio format: Dolby Audio (2ch))	MP4: H.264/MPEG-4 AVC (Audio format: LPCM (2ch 48kHz/16-bit), AAC (2ch)) MP4 HEVC: H.265/HEVC (Audio format: AAC (2ch)) AVCHD Progressive (Audio format: Dolby Audio (2ch)) AVCHD (Audio format: Dolby Audio (2ch))
60Hz area	4K (3840x2160) MP4**	59.94p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM) 29.97p, 100Mbps (4:2:0 8-bit LongGOP) (AAC) 23.98p, 100Mbps (4:2:0 8-bit LongGOP) (AAC)	59.94p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM) 29.97p, 100Mbps (4:2:0 8-bit LongGOP) (AAC) 23.98p, 100Mbps (4:2:0 8-bit LongGOP) (AAC)
	4K (3840x2160) MP4 HEVC**	—	29.97p, 72Mbps (4:2:0 10-bit LongGOP) (AAC) (HEVC, HLG recording) 23.98p, 72Mbps (4:2:0 10-bit LongGOP) (AAC) (HEVC, HLG recording)
	High speed video	4K (3840x2160) MP4** 29.97p (Sensor output is 60fps) 23.98p (Sensor output is 48fps)	29.97p (Sensor output is 60fps) 23.98p (Sensor output is 48fps)
	FHD (1920x1080) MP4**	29.97p (Sensor output is 180fps / 120fps)	29.97p (Sensor output is 180fps / 150fps)
50Hz area	4K (3840x2160) MP4**	59.94p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM) 50.00p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM) 29.97p, 100Mbps (4:2:0 8-bit LongGOP) (AAC) 25.00p, 100Mbps (4:2:0 8-bit LongGOP) (AAC) 23.98p, 100Mbps (4:2:0 8-bit LongGOP) (AAC)	59.94p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM) 50.00p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM) 29.97p, 100Mbps (4:2:0 8-bit LongGOP) (AAC) 25.00p, 100Mbps (4:2:0 8-bit LongGOP) (AAC) 23.98p, 100Mbps (4:2:0 8-bit LongGOP) (AAC)
	4K (3840x2160) MP4 HEVC**	—	29.97p, 72Mbps (4:2:0 10-bit LongGOP) (AAC) (HEVC, HLG recording) 25.00p, 72Mbps (4:2:0 10-bit LongGOP) (AAC) (HEVC, HLG recording) 23.98p, 72Mbps (4:2:0 10-bit LongGOP) (AAC) (HEVC, HLG recording)
	High speed video	4K (3840x2160) MP4** 29.97p (Sensor output is 60fps) 25.00p (Sensor output is 50fps) 23.98p (Sensor output is 48fps)	29.97p (Sensor output is 60fps) 25.00p (Sensor output is 50fps) 23.98p (Sensor output is 48fps)
	FHD (1920x1080) MP4**	29.97p (Sensor output is 180fps / 120fps) 25.00p (Sensor output is 150fps / 100fps)	29.97p (Sensor output is 180fps / 150fps) 25.00p (Sensor output is 150fps / 125fps)
Continuous recordable time**		Approx. 150 min (rear monitor), 140 min (LVF) in [AVCHD/FHD/60p]	*When using S-R24105 and SD Memory Card.
Actual recordable time**		Approx. 75 min (rear monitor), 70 min (LVF) in [AVCHD/FHD/60p]	*When using S-R24105 and SD Memory Card.
VIEWFINDER / REAR MONITOR			
Viewfinder	Type	OLED Live View Finder	
	Pixels	Approx. 5,760k dots	
	Field of view / Magnification	Approx. 100% / Approx. 0.78x with 50 mm lens at infinity; -1.0 m ⁻¹ , when the aspect ratio is set to 3:2	
	Eye point / Diopter adjustment	Approx. 21 mm at infinity; -1.0 m ⁻¹ / -4.0 - +2.0 (dpt)	
Rear monitor	Type	TFT LCD monitor with static touch control	
	Monitor size	Triaxial tilt, 3.2-inch (8.0cm), 3:2 aspect	
	Pixels	Approx. 2,100k dots	

S1R: Recording stops when the continuous recording time exceeds 10 minutes with [MP4] in [High Speed Video] [6K PHOTO], 15 minutes with [MP4] in [4K] [4K PHOTO], S1: Recording stops when the continuous recording time exceeds 10 minutes with [MP4] in [6K PHOTO], 15 minutes with [MP4] in [High Speed Video] [4K PHOTO], 29 minutes and 59 seconds with [MP4] in [4K/60p] [4K/50p]. About motion picture recording / 6K PHOTO/4K PHOTO recording : 6K PHOTO is a high speed burst shooting function that cuts a still image out of a 4:3 or 3:2 video footage with approx. 18-megapixel (approx. 6000 x 3000 effective pixel count) that the 6K image manages. Use an XQD or SD memory card with SD Speed Class with *UHS-I / UHS-II UHS Speed Class 3 [U3] *when recording motion pictures with [MP4] in [4K] [High Speed Video] or [6K PHOTO/4K PHOTO]. ISO speed class is the speed standard regarding continuous writing.). MP4 motion pictures with [MP4] in [4K]: When using an XQD memory card of 32 GB or less, or an SDHC memory card: You can continue recording without interruption even if the file size exceeds 4 GB, but the motion picture file will be divided and recorded/played back separately. When using an XQD memory card over 32 GB, or an SDXC memory card: You can continue recording without interruption even if the file size exceeds 96 GB or 3 hours 4 minutes in length, but the motion picture file will be divided and recorded/played back separately. MP4 motion pictures with [MP4] in [FHD]: You can continue recording without interruption even if the file size exceeds 4 GB or 30 minutes in length, but the motion picture file will be divided and recorded/played back separately. When the ambient temperature is high or continuous recording is performed, the camera may stop the recording to protect itself. Wait until the camera cools down. *The camera may stop recording when used in lower or higher than recommended operating temperature: -10 to 40 degrees.

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		LUMIX S1R	LUMIX S1
OTHER BASIC PERFORMANCE			
Focus	AF mode	Auto Detection (Face, Eye, Body, Animal), Tracking, 225-Area, Zone (Vertical/Horizontal), Zone (Square), Zone (Oval), 1-Area+, 1-Area-, Pinpoint, Custom 1, 2, 3 (Full area touch is available) [Scalable AF frame size and flexible AF position]	
	AF detective range	EV -6 - 18 (F1.4, ISO100 equivalent, AFS)	
ISO sensitivity (Standard output sensitivity)		Auto / 50* / 100 / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 / 51200* (Changeable to 1/3 EV step) *Extended ISO	Auto / 50* / 100 / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 / 51200 / 102400* (Changeable to 1/3 EV step) *Extended ISO
Image stabilization system		Image sensor shift type [5-axis / 5.5-stop*] *Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=50mm when S-XS0 is used.] Dual I.S. (6.0-stop* Dual I.S. 2 compatible) *Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=200mm when S-R70200 is used.]	
Shutter	Type	Focal-plane shutter	
	Shutter speed	Still image: Bulb (Max. 30 minutes), 1/8,000 - 60 Electronic front curtain shutter: Bulb (Max. 30 minutes), 1/2,000 - 60 Electronic shutter: Bulb (Max. 60 sec), 1/16,000 - 60 Motion picture: 1/16,000 - 1/25	Still image: Bulb (Max. 30 minutes), 1/8,000 - 60 Electronic front curtain shutter: Bulb (Max. 30 minutes), 1/2,000 - 60 Electronic shutter: Bulb (Max. 60 sec), 1/8,000 - 60 Motion picture: 1/16,000 - 1/25
Burst shooting when using mechanical shutter		AFS/MF: H: 9 frames/sec, M: 5 frames/sec (with Live View), L: 2 frames/sec (with Live View) AFC: H: 6 frames/sec (with Live View), M: 5 frames/sec (with Live View), L: 2 frames/sec (with Live View)	
6K PHOTO**		6K PHOTO: 30 frames/sec	
4K PHOTO**		4K PHOTO: 60 frames/sec, 30 frames/sec	
INTERFACE / DIMENSIONS / WEIGHT			
USB		SuperSpeed USB 3.1 Gen1 Type-C	
HDMI		HDMI TypeA Monitor-through: 4:2:2 8bit (Except for [4K/60p]/[4K/50p]) / 4:2:0 8bit	
Remote input		ø2.5mm	
External microphone / external audio device input		ø3.5mm for external microphone / external audio device MIC (Plug-in Power) / MIC / LINE is selectable. Stereo/Lens Auto/Shotgun/Super Shotgun/Manual is selectable when attaching DMW-MS2 (sold separately).	
Headphone output		ø3.5mm	
Microphone		Stereo, Wind Noise Canceller: OFF / Low* / Standard / High *When attaching DMW-MS2 (sold separately).	
Card slot		Slot 1: XQD Memory Card Slot 2: SD Memory Card, SDHC Memory Card*, SDXC Memory Card* *Compatible with UHS-I/UHS-II UHS Speed Class 3 standard SDHC/SDXC Memory Cards and UHS-II Video Speed Class 90 standard SDXC Memory Cards.	
Wi-Fi		2.4GHz (STA/AP) (IEEE802.11b/g/n), 5GHz (STA) (IEEE 802.11a/n/ac) *5GHz Wi-Fi is not available in some countries.	
Bluetooth		Bluetooth® v4.2 (Bluetooth Low Energy (BLE))	
Dust and splash resistant*		Yes. *Dust and Splash Resistant does not guarantee that damage will not occur if this camera is subjected to direct contact with dust and water.	
Battery		Li-ion Battery Pack (7.4V, 3050mAh, 23Wh) (bundled), USB power supply, USB power charging	
Battery life (CIPA standard)	When using XQD memory card	Approx. 360 images (rear monitor), 340 images (LVF), 1,100 images (Power Save LVF mode*) with S-R24105	Approx. 380 images (rear monitor), 360 images (LVF), 1,100 images (Power Save LVF mode*) with S-R24105
	When using SD memory card	Approx. 380 images (rear monitor), 360 images (LVF), 1,150 images (Power Save LVF mode*) with S-R24105	Approx. 400 images (rear monitor), 380 images (LVF), 1,150 images (Power Save LVF mode*) with S-R24105
*Under the test conditions specified by Panasonic based on CIPA standard. When the time to get in the sleep mode is set to 1 sec.			
Dimensions (W x H x D)		Approx. 148.9 x 110.0 x 96.7 mm / 5.86 x 4.33 x 3.81 inch (excluding protrusions)	
Weight		Approx. 1,020g / 2.25 lb (XQD Memory Card x 1, Battery, Body)	Approx. 1,021g / 2.25 lb (XQD Memory Card x 1, Battery, Body)
		Approx. 1,016g / 2.24 lb (SD Memory Card x 1, Battery, Body)	Approx. 1,017g / 2.24 lb (SD Memory Card x 1, Battery, Body)
		Approx. 898g / 1.98 lb (Body only)	Approx. 899g / 1.98 lb (Body only)
Operating temperature***		-10°C to 40°C (14°F to 104°F)	
Operating humidity		10%RH to 80%RH	
Bundled software (download)		LUMIX Tether, PHOTOfunSTUDIO 10.1 PE, SILKYPIX® Developer Studio SE, LoiloScope Trial Version	
Bundled accessories		Body Cap, Hot Shoe Cover, Eye Cup, Flash Synchr Socket Cap, Cover for the Battery Grip Connector, Shoulder Strap, Battery Pack, Battery Charger, AC Adaptor, AC Mains Lead, USB Connection Cable (C-C), USB Connection Cable (A-C), Cable Holder, Lens Cap (M kit), Lens Hood (M kit), Lens Rear Cap (M kit)	

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LUMIX S1R | S1

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LUMIX S1R | LUMIX S 24-105mm F4 MACRO O.I.S. | 1/2000 sec, F4.0, ISO400 | Annie Griffiths



LUMIX S1 | LUMIX S PRO 50mm F1.4 | 1/40 sec, F1.4, ISO800 | Daniel Berehulak



Ultimate Resolution. Professional Performance.

A new 47.3-megapixel CMOS sensor that delivers incredibly realistic detail.
Focus and O.I.S. systems that capture each instant with stunning clarity.
A body design that fluidly guides photographic intentions toward unforgettable images.
With all these features and more, this full-frame mirrorless camera transports you
to the world of passionate image creation.

47.3MP Full-frame CMOS Sensor

A 47.3-megapixel full-frame CMOS sensor gives the LUMIX S1R the industry's highest level of resolution* to pursue the ultimate power of expression. This sensor adopts an aspherical lens for an on-chip micro lens to enhance light condensation. Optimally designed to concentrate more incoming light onto the photodiode, it features both high resolution and highly efficient light condensation performance. In addition to the precise reproduction of details, this sensor achieves a high S/N ratio. A massive amount of digital signals are processed by a new, high-speed, high-performance Venus Engine to render images with breathtaking description in both photo and video.

* As a Full-frame Digital Single Lens Mirrorless Camera, as of February 1, 2019.

LUMIX S1R DC-S1R



Ultimate Hybrid. Fuel the Passion for Stills and Video.

A new 24.2-megapixel CMOS sensor that delivers incredibly realistic detail.
4K video recording with no time limit, meeting professional needs.*
Going beyond the boundaries of still and video,
this full-frame mirrorless camera inspires passionate image creation.

24.2MP Full-frame CMOS Sensor

The LUMIX S1 comes with a 24.2-megapixel full-frame CMOS sensor. Providing ample light condensation per pixel, the LUMIX S1 boasts a wide dynamic range and reproduces sharp images with exceptional clarity. The new Venus Engine, which is exclusively tuned for the full-frame camera, and its Multipixel Luminance Generation and Intelligent Detail Processing, realize natural, high-resolution expression while suppressing color moiré. Three-dimensional Color Control also improves the color reproduction of both bright areas and shadows. Thanks to the high-performance sensor and engine, true-to-life images from low to high sensitivity are realized. The LUMIX S1 is an ideal camera especially in low-light situations with minimal noise even at the maximum ISO51200.

* Maximum 29 minutes 59 seconds in 4K 60p/50p until the SD Memory Card becomes full or the battery runs out. When the ambient temperature is high or continuous recording is performed, the camera may stop the recording to protect itself. Wait until the camera cools down.

LUMIX S1 DC-S1

Highly Detailed Images

6-stop 5-axis Dual I.S. 2

The LUMIX S1R/S1 integrates the Body I.S. (Image Stabilizer) with 5.5-stop compensation power.*¹ Combining the Body I.S. (5-axis) and the O.I.S. (Optical Image Stabilizer, 2-axis) in the LUMIX S Series lenses, the 5-axis Dual I.S. 2 compensates for larger movements that were conventionally uncontrollable.*² It is highly beneficial for telephoto shots and adverse situations, such as in low light or with one-handed shooting with a 6-stop slower shutter speed.*³

High Resolution Mode – 187MP (S1R) / 96MP (S1)

High Resolution mode enables ultra-high precision photo shooting. Eight consecutive images are automatically shot while shifting the sensor using the Body I.S. mechanism and synthesized into a RAW image. This mode is ideal for taking natural landscapes or fine arts with delicate details. However, it can also be used in situations where moving subjects are included in the scene, by switching the sub mode.

HLG Photo Mode – New Style of Photo Expression

Panasonic's HLG Photo mode excels in the expression of lights, such as sparkling starlight or glaring sunlight.*⁴ It provides a wider dynamic range to reproduce light and shadows with more natural contrast. The HLG Photos can be produced as HSP files with compressed high-brightness signals.*⁵ Photographers can view those images on the latest Panasonic HLG-compliant 4KTV via HDMI cable connection or other HLG-compliant devices.

High-precision Shutter Unit

The new shutter unit offers a maximum shutter speed of 1/8000 second to capture fast moving subjects and to use a high-speed lens with a fully open aperture even outdoors. The external flash can be synchronized with the industry's fastest shutter speed** of a maximum 1/320 second.*⁷

*¹ Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=50mm when S-XS0 is used.] *² 5-Axis Dual I.S.2 can be used with the lens S-R24105 and S-R70200 as of February 1, 2019. *³ Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=200mm when S-R70200 is used.] *⁴ "HLG (Hybrid Log Gamma)" is an international standard (ITU-R BT.2100) HDR format. *⁵ "HSP" is an HDR picture format using HLG format video technology. *⁶ As a Full-frame Digital Single Lens Mirrorless Camera, as of February 1, 2019. *⁷ The guide number decreases at 1/320 second. Only when set to M mode or S mode. *⁸ 11EV, at wide-end with S-R24105 (CIPA) in LVF120 fps setting. *⁹ At ISO 100, F1.4, AFS, 100% contrast target. *¹⁰ Maximum 29 minutes 59 seconds in 4K 60p/50p until the SD Memory Card becomes full or the battery runs out. When the ambient temperature is high or continuous recording is performed, the camera may stop the recording to protect itself. Wait until the camera cools down. *¹¹ 50p and 25p recording only for 50Hz area. *¹² XQD is a trademark of Sony Corporation. *¹³ Dust and Splash Resistant does not guarantee that damage will not occur if this camera is subjected to direct contact with dust and water.

Instantaneous Shooting

High-speed, High-precision AF of Approximately 0.08 sec

Panasonic has achieved a high-speed AF with its advanced control technology over major devices – lens, sensor and imaging engine. The lens and sensor communicate at a maximum 480 fps. Combining the Contrast AF with DFD technology, the LUMIX S1R/S1 realizes an ultra high-speed, high-precision AF of approximately 0.08 sec.*⁸

Low Light AF in -6EV Condition

As a camera that excels in low-light shooting, the LUMIX S1R/S1 boasts -6EV*⁹ luminance detection performance with Low Light AF thanks to the higher sensitivity and optimized tuning of the sensor.

Adoption of AI Technology

The LUMIX S1R/S1 also incorporates Advanced AI Technology that detects specific subjects – humans and fast-moving animals, including canidae, felidae and birds. The LUMIX S1R/S1 keeps tracking these subjects even when they turn their back to the camera.

Video Recording Performance

4K 60p/50p video recording is available in the LUMIX S1R/S1. Furthermore, the LUMIX S1 is capable of recording a full-pixel readout of signals and a crop factor of 1.0x in 30p/25p to save truly beautiful footage with no time limit*¹⁰ for both Full-HD and 4K 30p/25p, as well as HDR (High Dynamic Range) video recording. The LUMIX S1 will comply with 4:2:2 10-bit 4K 30p/25p internal video recording, 4K 60p/50p HDMI output and V-Log with a software upgrade key (to be sold separately).*¹¹

High Speed Video

The High Speed Video lets you record slow motion video in 4K (max. 60 fps / 50fps) and FHD (max. 180 fps / 150fps).

Reliable Operation

The Largest-in-class Real View Finder

The largest-in-class Real View Finder boasts the world's highest 5,760k-dot resolution.*⁶ The 0.78x magnification ratio can be switched to 0.7x or 0.74x according to the shooting situation. Adoption of a high-speed, high-precision OLED (Organic Light-Emitting Diode) for the LVF achieves smooth display at 60 fps / 120 fps (switchable) and high-speed response with minimum time lag of less than 0.005 sec as well as 10,000:1 high contrast for exceptional visibility.

Triaxial Tilt Rear Monitor and Status LCD

The 2,100K-dot high resolution monitor in 3:2 aspect ratio has adopted a triaxial tilt moving element to secure both durability and operational ease. It also has a touch control system. The LUMIX S1R/S1 includes a largest-in-class*⁶ Status LCD on the top, allowing users to check the settings at a glance.

Double Memory Card Slot

The Double Memory Card slot is compatible with SD Memory Cards (UHS-II) and XQD Memory Cards for high-speed, high-capacity, continuous data recording.*¹² It will also be compatible with CFexpress in the near future.

Rugged Design

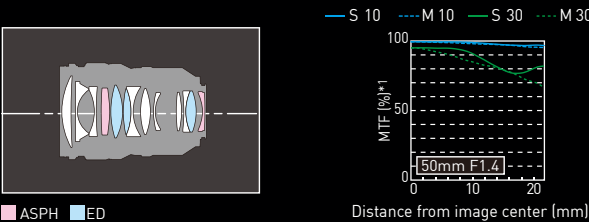
To be tough enough to withstand heavy field use, the main structure is composed of a magnesium alloy full die-cast front/rear frame. Robust construction and a sealing for every joint, dial, and button make the LUMIX S1R/S1 not only dust resistant and splash resistant but also operates down to -10 degrees Centigrade.*¹³ The shutter unit is also durable for approximately 400,000 cycles.



Fixed Focal Length

The core of the LUMIX S Series of lenses with large aperture

LUMIX S PRO Certified by LEICA 50mm F1.4



Product Number	S-X50
Lens Construction	13 elements in 11 groups
Mount	L-Mount
Closest Focusing Distance	0.44m / 1.44ft
Maximum Magnification	Approx. 0.15x
Dust and Splash Resistant	Yes*2
Operating Temperature	-10°C to 40°C (14°F to 104°F)
Filter Size	φ77mm
Max. Diameter	φ90mm / 3.54inch
Overall Length	Approx. 130mm / 5.12inch
Weight	Approx. 955g / 33.69oz
Supplied Accessories	Lens cap, Lens rear cap, Lens hood, Lens storage bag

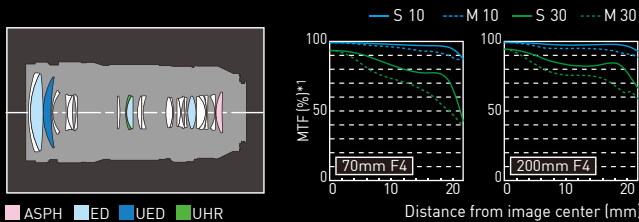
*1 For lenses that are capable of compensating distortion, the horizontal axis of the MTF shows the distance from the center of the corrected image. *2 Dust and Splash Resistant does not guarantee that damage will not occur if this lens is subjected to direct contact with dust and water.



Telephoto Zoom

High resolution with stunning clarity across the entire zoom range

LUMIX S PRO Certified by LEICA 70-200mm F4 O.I.S.



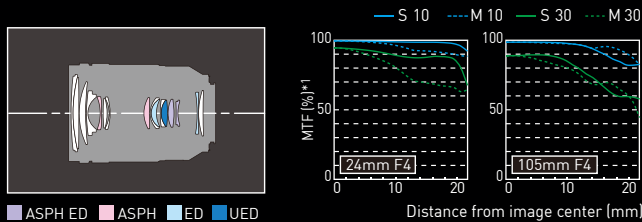
Product Number	S-R70200
Lens Construction	23 elements in 17 groups
Mount	L-Mount
Optical Image Stabilizer	Yes
Closest Focusing Distance	0.92m / 3.02ft
Maximum Magnification	Approx. 0.25x
Dust and Splash Resistant	Yes*2
Operating Temperature	-10°C to 40°C (14°F to 104°F)
Filter Size	φ77mm
Max. Diameter	φ84.4mm / 3.32inch
Overall Length	Approx. 179mm / 7.05inch
Weight	Approx. 985g / 34.74oz
Supplied Accessories	Lens cap, Lens rear cap, Lens hood, Lens storage bag, External tripod mount



Standard Zoom

Covering the wide-angle to medium telephoto range with macro shot capability

LUMIX S 24-105mm F4 MACRO O.I.S.



Product Number	S-R24105
Lens Construction	16 elements in 13 groups
Mount	L-Mount
Optical Image Stabilizer	Yes
Closest Focusing Distance	0.30m / 0.98ft
Maximum Magnification	Approx. 0.5x
Dust and Splash Resistant	Yes*2
Operating Temperature	-10°C to 40°C (14°F to 104°F)
Filter Size	φ77mm
Max. Diameter	φ84mm / 3.31inch
Overall Length	Approx. 118mm / 4.65inch
Weight	Approx. 680g / 23.99oz
Supplied Accessories	Lens cap, Lens rear cap, Lens hood, Lens storage bag



UNLIMITED

Leica Camera, Panasonic and Sigma are set to offer a user-friendly solution that will allow photographers to 'mix and match' any of the three manufacturers' APS-C and full-frame cameras with any lens from each other's product portfolios. Regardless of which combination you might choose: virtually all functional and qualitative characteristics of each respective system will be fully retained. The L-Mount thereby opens up an almost limitless spectrum of new creative possibilities.

Discover the possibilities at
www.l-mount.com



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* The L-Mount Logo mark is a trademark or registered trademark of Leica Camera AG.

Optional Accessories



- 1 External Flash DMW-FL580L (GN58)
- 2 Stereo Shotgun Microphone DMW-MS2
- 3 Eyecup DMW-EC6
- 4 XLR Microphone Adapter DMW-XLR1
- 5 Shutter Remote Control DMW-RS2

- 6 Shoulder Strap (Bundled)
- 7 Battery Grip DMW-BGS1
- 8 Battery Charger DMW-BTC14*
- 9 Battery Pack DMW-BLJ31*

* This accessory is also bundled with the LUMIX S1R and S1.

Panasonic

Panasonic DSC and Camcorder 2018

Lumix G Series and lenses



Lumix Digital Still Cameras

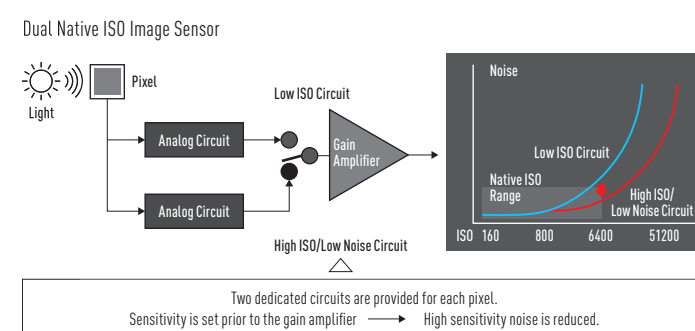


Panasonic Camcorders



10.2MP High-sensitivity Dual Native ISO Technology (ISO160-51200)

The LUMIX GH5S achieves the highest-ever sensitivity and best image quality in LUMIX history. This is realized by combining the newly developed high sensitivity sensor with Dual Native ISO technology and the latest Venus Engine. Dual Native ISO is a revolutionary technology featured on Panasonic's professional video cameras and offers the advantages of very high sensitivity while keeping noise levels low. Usually, with a conventional single native ISO, noise levels rise when sensitivity is increased. However, the newly developed image sensor implements dual circuits able to switch to high native sensitivity before gain processing. This means you can achieve beautiful footage with suppressed noise in low-lit situations.



GH5S



Enhancing Sensitivity. Empowering Creativity.

- 1 High Sensitivity Shooting, 10.2MP MOS / ISO160-51200 / Dual Native ISO
- 2 C4K 60p/50p / 4:2:2 10bit / V-LogL Pre-installed
- 3 Multi Aspect / 14bit RAW / Low Light AF -5EV
- 4 TC IN/OUT Terminal & Conversion Cable

DC-GH5S Body

GH5



Pursuing Intuition and Mobility to match the enthusiasm of all Photographers & Video Creators

- 1 New 20.3MP Sensor w/o LPF / NEW Venus Engine / 5-axis Dual I.S. 2
- 2 4K60p / 4:2:2 10bit 4K30p / No Cropping / Unlimited Recording Time
- 3 Splash/Dust/Freezeproof / Mag Alloy Body / 200k Shutter Life / Double SD Slot
- 4 0.05 sec AF with Advanced DFD / 6K PHOTO 30fps / 4K PHOTO 60fps

DC-GH5A Body + LUMIX G X VARIO 12-35mm / FZ.8 ASPH./POWER O.I.S.

Multi Aspect Ratio

The LUMIX GH5S sensor handles multiple aspect ratios; 4:3, 17:9, 16:9 and 3:2. Thanks to broad margins of effective pixels, focal length does not change in these aspect ratios.

Suppressed Rolling Shutter

Rolling shutter distortion, compared to the GH5, is suppressed by approx. 1.3x with high readout speeds when recording video or using an electronic shutter.

G9



The Ultimate Agility

- 1 20.3MP w/o LPF MOS Sensor / New Venus Engine / 6.5-stop / 5-axis Dual I.S. 2 / 80MP High-Res Mode
- 2 6K PHOTO / AFC 20 fps Burst Shooting / AFS 60 fps Burst Shooting / AFC 20 fps Burst Shooting
- 3 Large 0.83 x 3680k OLED LVF / 120 fps / LVF Display / Status LCD
- 4 Splash / Dust / Freezeproof / Mag Alloy Body / 200k Shutter Life / Double SD Slot

GX85

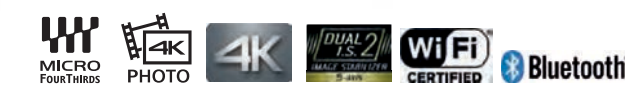


High Image Quality and High Performance Packed in a Compact Body The One That Captures Life on the Move

- 1 New Way of Photography 4K PHOTO & Post Focus, 4K Video
- 2 Enhanced Blur Compensation 5-Axis Dual I.S. (Image Stabilizer)
- 3 High Image Quality 16MP Live MOS Sensor w/o Low Pass Filter & Venus Engine
- 4 Functional Design & Control DFD AF, 2764K-dot LVF, 3.0" Tilttable Monitor

GX85 : Body
GX85K : Body + FS1032

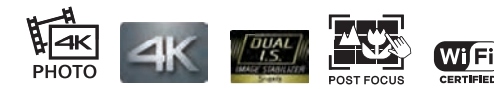
GX9



For True Creative Vision

- 1 20MP w/o LPF MOS Sensor / Venus Engine / 5-axis Dual I.S. 4 Stop / Grain Effect L.Monochrome D
- 2 Tilttable LVF 2760k-dot equiv. / Exposure Compensation Dial / 1240k-dot Tilttable Monitor / Focus Lever
- 3 4K PHOTO / DFD AF / AFS 9 / AFC 6 fps Burst Shooting / Silent Mode
- 4 Sequence Composition / Post Focus Focus Stacking / 4K 30p/25p/24p / Built-in Flash

G85



Perfect Moments with Exquisite Image Quality in Outdoor Situations All-Round Field Shooting Camera

- 1 Capture moments with no hand-shake blur 5-axis Dual I.S. 2 & New Shutter Unit
- 2 Body design for active outdoor shooting Splash/Dustproof & 0.74x 2,360k OLED LVF
- 3 Freeze moments with 4K & ultra-fast AF 4K PHOTO & Contrast AF with DFD Technology
- 4 Impressive images with high-resolution, true-to-life details Live MOS Sensor w/o Low Pass Filter
- 5 New way of photographing Focus Stacking & Post Focus

G7



Hybrid mirrorless camera with the ultimate picture quality

- 1 16.00M Live MOS Sensor, 4K 30p(25p) / 24p Video Recording
- 2 4K Video & 4K Photo (4K Pre-Burst, 4K Burst, 4K Burst (S/S) (Start&Stop))
- 3 Contrast AF with DFD Technology, 2,360k-dot OLED LVF

DMC-G7K Kit: Body + H-FS1442A

GF9 / GF10



For Your Best Selfie Ever

- 1 The Best Camera for Selfies Advanced Self shot mode / Beauty Retouch / Hands Free Selfie New Night Mode Selfie / New Wide 4K Selfie¹
- 2 Unmissable Moments with 4K 4K PHOTO / Light speed AF with DFD Technology
- 3 Uncompromising Picture Quality 16.1MP Live MOS Sensor w/o Low Pass Filter / Venus Engine
- 4 Easy Wi-Fi Image Sharing Wi-Fi PW-Less Connection / Direct Uploading

¹ GF10 only: not available in GCC

FZ2500



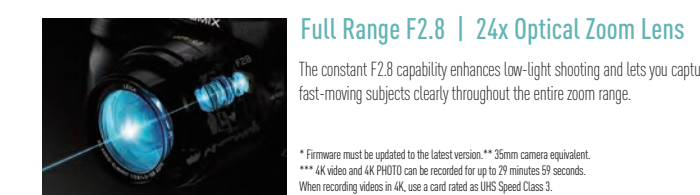
The Ultimate Photo / Video Hybrid Camera

- 1 Unprecedented performance for both photo and video F2.8-4.5 24-480mm LEICA / 20MP 1-inch Sensor
- 2 Video performance to meet professional needs 4K 30p / 100Mbps FHD / 4:2:2 10bit HDMI Output
- 3 Freeze moments with 4K & ultra-fast AF 4K PHOTO & Light Speed AF with DFD Technology
- 4 Carefully Calculated, Intuitive Operation Large 0.74x OLED LVF / Dual Ring & Dual Dial
- 5 New way of photographing Focus Stacking & Post Focus

FZ300



- 1 Full-range F2.8 / 25-600mm** LEICA DC VARIO-ELMARIT lens
- 2 New photographic experience with 4K***: 4K video, 4K PHOTO and Post Focus*
- 3 Splash/dustproof rugged design for heavy field use



¹ GF10 only: not available in GCC

FZ1000



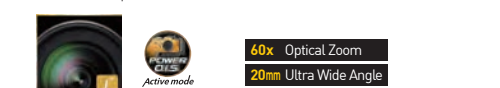
The Flagship Bridge Camera with Superb Image Quality and Pro-operability

- 1 Superb Images Rivaling DSLM / DSLRs 25-400mm LEICA DC Lens, 20.1MP 1-inch High Sensitivity MOS Sensor & New Venus Engine
- 2 4K Video & Full-HD 60P/50P Video Recording* Various Functions Featuring High Speed Video** & Time Lapse Shot * Max. 20min 50sec ** Max. 10min 50sec
- 3 Agile Mobility and Intuitive Control Faster Speed AF (DFD Technology)*1, Manual Ring, Drive Mode Dial * Works for photo shooting only
- 4 High-Speed, High-Resolution LVF 2359k-dot OLED LVF with 0.39-inch, 0.7x Magnification

FZ80



- 1 20mm ultra wide-angle and powerful 60x optical zoom lens*
- 2 POWER O.I.S. with Active Mode Hand-shake compensation even with powerful zooming
- 3 Full-HD video with clear sound featuring the Windshield Zoom Microphone



¹ 30mm camera equivalent: 28-1200mm

Panasonic

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customercare@ae.panasonic.com | www.panasonic.com



TZ220



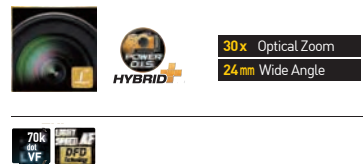
For Travelers Who Want Pocket-sized Zoom Camera

- 1-inch Sensor / 15x LEICA DC Lens**
24-360mm* powerful zoom lens while achieving a large sensor
- 0.53x* 2,330k-dot equiv. LVF**
Large, high resolution LVF for stable framing & superb visibility
- 4K PHOTO / DFD AF**
Unmissable moments with 4K technology & ultra-fast AF
- Wi-Fi / Bluetooth**
Easy sharing your travel memories

TZ90



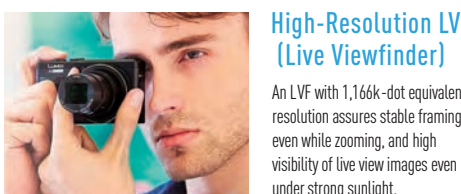
- 1 Powerful 30x Zoom in Pocket-sized Body**
24-720mm LEICA DC Lens & 20.3MP MOS Sensor
- 2 Unmissable Moments with 4K PHOTO**
4K PHOTO & Light Speed AF with DFD
- 3 Outstanding Picture Quality Even in Video**
4K Video (3840 x 2160 30p/25p Max. 15 min)
- 4 More Fun to Travel Selfies**
1040k-dot Tilttable LCD & Versatile Selfie Functions



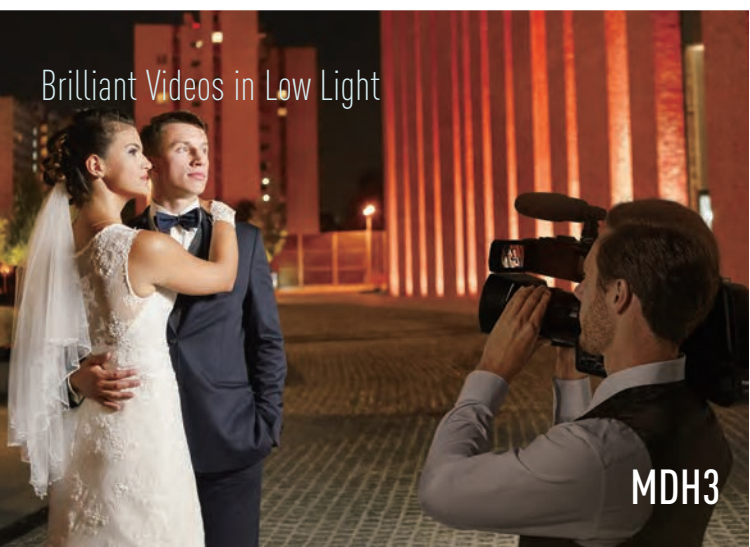
TZ80



- 1 30x optical zoom* LEICA DC lens in a pocket-sized body**
- 2 18.1-megapixel MOS sensor and high performance Venus Engine**
- 3 New photographic experience with 4K**:**
4K video, 4K PHOTO and Post Focus



High-Resolution LVF (Live Viewfinder)
An LVF with 1,666k-dot equivalent resolution assures stable framing even while zooming, and high visibility of live view images even under strong sunlight.



Functional Design



Design Identity

Consistency of low-end camcorder / Panasonic at a glance Legacy of MDH series

Looks High-Class

Luxurious appearance

Large MOS Sensor

The effective area is increased** to achieve the high image quality of 6.03M effective pixels. This gives you bright, beautiful shots even in dark places.
* Compared to the HC-MDH2.

Optical 20x Zoom

The optical 20x zoom lens covers the range from 29.5mm wide-angle* to 612mm tele by 4-Drive Lens System.

*35mm camera equivalent

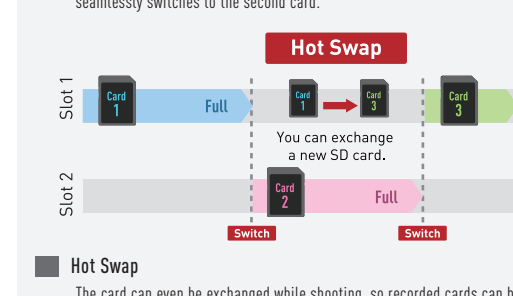


Simultaneous Relay Recording on Dual Memory



Relay Recording with Hot Swap

Relay Recording
When the first card reaches full capacity, the system automatically and seamlessly switches to the second card.



Intelligent AF

This advanced AF system achieves superior focus speed, excellent stability, and high tracking performance.

29.5mm Wide-Angle*

The wide-angle feature fits more people and more of the background into the frame.

X1



- 1 4k Premium Camcorder**
1.0-type (inch) 4K Sensor, Optical 20x, Wide 24mm
- 2 High-Resolution OLED EVF**
The viewfinder features a high-resolution OLED display for excellent color reproduction.
- 3 Professional-Level Shooting**
3 Manual Rings, 2-Channel XLR Terminals, Sliding 3.5-type (inch) Touch-Panel LCD

Recording Format	Lens
AVCHD Progressive MOV MP4	LEICA DC SUMILUX 24mm / 20x Optical Zoom
Sensor	1.0-type (inch) 4K Sensor

VX1



The Compact 4K Camcorder with Wide-Angle 25mm and Optical 24x Zoom

- 1 Brilliant 4K Picture Quality**
With 1/2.5-inch sensor and Bright F1.8 lens
- 2 Wide-Angle 25mm* and Optical 24x Zoom Lens**
Outstanding for shooting in small rooms and taking close-ups
* 35mm camera equivalent. Available with 4K and FHD/24p mode.
- 3 New 4K Cropping**
For better archives in Full-HD

Recording Format	Lens	LCD Monitor
AVCHD Progressive MP4	LEICA DC SUMILUX 25mm / 24x Optical Zoom	Full HD LCD
Sensor	1/2.5-inch (Effective)	3.5-inch

V800



Stunning Images, Even in Dim Lighting

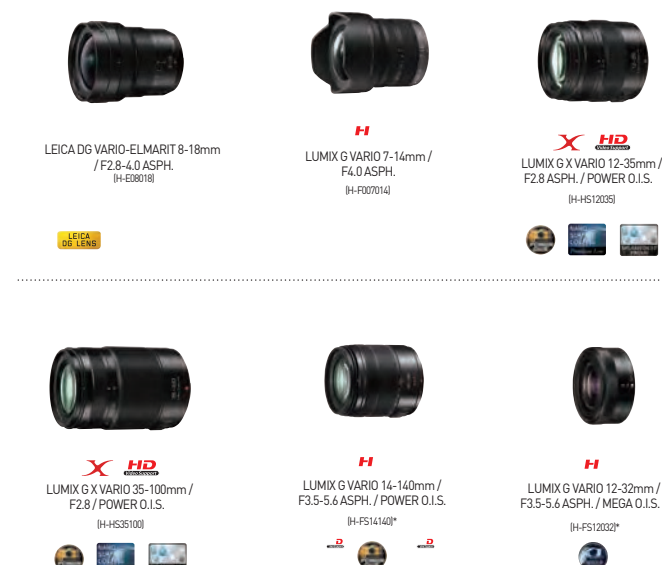
- 1 Brilliant Picture Quality**
With a 1/2.5-inch Sensor and Bright F1.8 Lens
- 2 Wide-Angle 25mm* and Optical 24x Zoom Lens**
Outstanding for shooting in small rooms and taking close-ups
- 3 Advanced Optical Image Stabilizer**
For less blurring while zooming with the Ball O.I.S.

Recording Format	Lens	LCD Monitor
AVCHD Progressive MP4	LEICA DC SUMILUX 25mm / 24x Optical Zoom	Full HD LCD
Sensor	1/2.5-inch (Effective)	3.5-inch

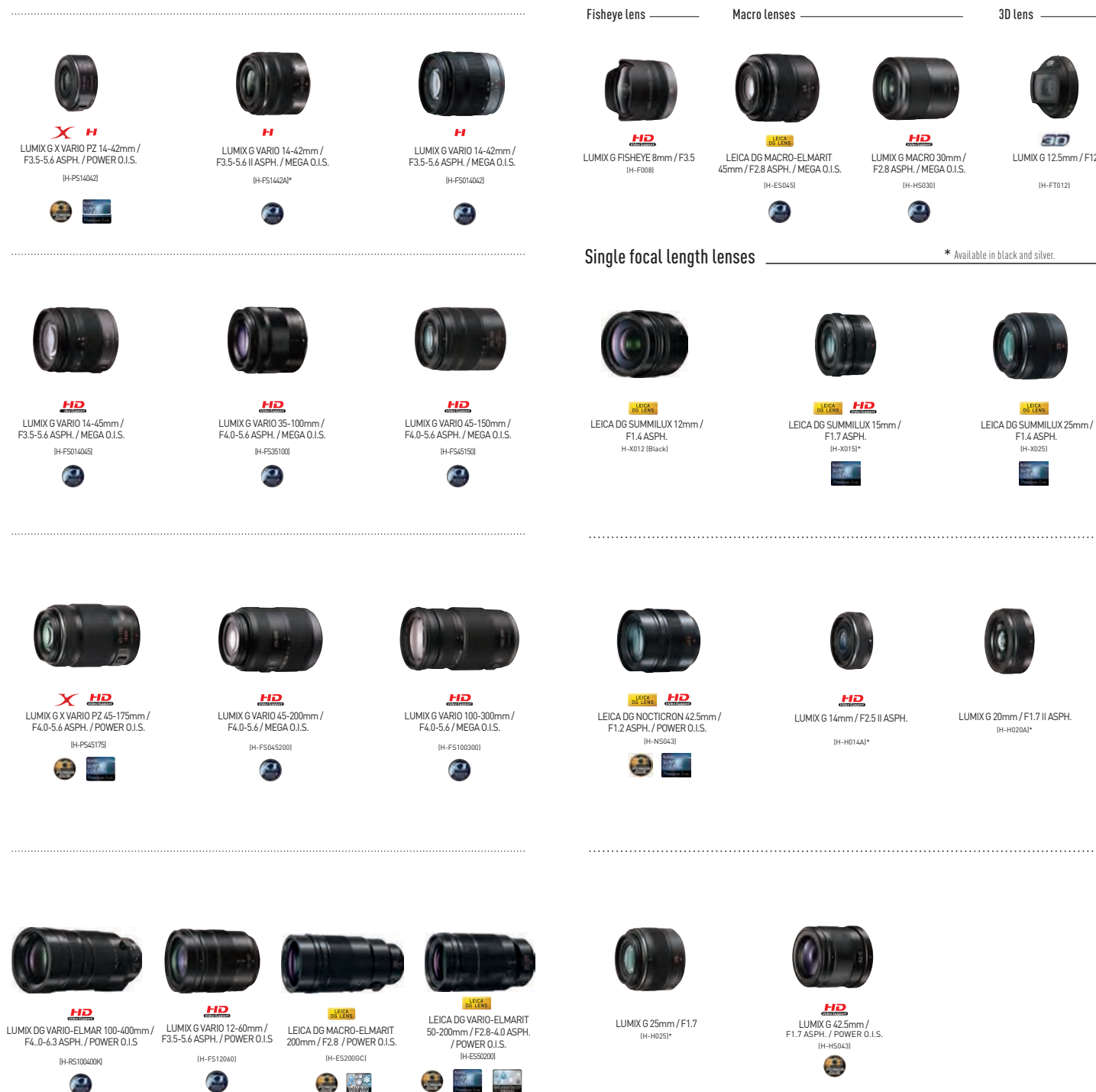
LUMIX G Series Lens Line-up

Already pioneers in the field of digital single lens mirrorless cameras, LUMIX's Micro Four Thirds lenses are once again breaking new ground. Combining state-of-the-art digital technology with cutting-edge optics, the new lenses offer uncompromising quality, exceptional image rendering, and an agility capable of capturing the most fleeting of moments, all in an amazingly compact format. From wide-angle to telephoto, the extensive range delivers top-class performance, whether you are shooting stills or high-quality video.

Zoom lenses



* Four Thirds™ and Micro Four Thirds™, and Four Thirds and Micro Four Thirds logos are trademarks or registered trademarks of Olympus Corporation, in Japan, the United States, the European Union and other countries. * Leica is a registered trademark of Leica Microsystems IR GmbH.



MDH3



Built for Professional Shooting

- 1 Ergonomic Pro-Style Design**
4-Point Support Design / New LCD Lay-out
- 2 Dependable Recording System**
Simultaneous Recording / Easy Data Back up
- 3 Advanced Picture Quality**
Panasonic Lens / Full HD 1080 TV Lines of Horizontal Resolution / High-sensitivity Sensor / 5-Axis HYBRID O.I.S. + & Level Shot

Sensor	Recording Format	Lens
High Sensitivity	AVCHD Progressive MOV MP4	Panasonic LENS 21x Optical Zoom
Engine	BSI sensor	1/3.1-inch

PV100



Palm Type Entry Model for Business Use Low Light, Pro Features, Semi Pro Palm type Camcorder

- 1 Competitive Semi-Pro Handheld Type**
1/3.1-inch Sensor, Optical 20x, Wide 29.5mm
- 2 LED Video Light (with Light Filter)**
Low Light Shooting
- 3 Professional-Level Shooting**
3 Manual Rings, 2-Channel XLR Terminals, Cam Remote Simultaneous Rec & Relay Rec with Hot Swap

Recording Format	Lens	Engine
AVCHD Progressive MOV MP4	Panasonic LENS 20x Optical Zoom	BSI sensor
Recording Format	BSI sensor	1/3.1-inch

X1000



Breathtaking 4K Quality for Those Special Memories

- 1 4K 60p/50p Video Recording with Mobility**
- 2 High-Bit-Rate Recording for Both 4K and Full-HD**
- 3 Great Functions for Professional Needs**

Recording Format	Lens	Sensor
AVCHD Progressive MOV MP4	LEICA DC SUMILUX 24mm / 20x Optical Zoom	BSI sensor
Engine	BSI sensor	1/2.3-inch

V385



- 1 Intelligent 90x Zoom**
For imaging power that's out of this world
- 2 5-Axis HYBRID O.I.S. with Auto O.I.S. Lock / Level Shot Function**
For more stable images and less blurring
- 3 Wi-Fi Function**
Enables easy sharing via SNS
- 4 Wireless Multi Camera**
Records multiple scenes with smartphones via Wi-Fi

Recording Format	Lens	Engine	LCD Monitor
AVCHD Progressive MP4	Panasonic LENS 28x Optical Zoom	BSI sensor	Full HD LCD
Sensor	BSI sensor	1/5.8-inch	3.0-inch

V180



- 1 Intelligent 90x Zoom**
For imaging power that's out of this world
- 2 5-Axis HYBRID O.I.S. and Level Shot Function**
For more stable images and less blurring
- 3 28mm Wide-angle Shooting**
Handy for group shots and landscapes

Recording Format	Lens	Engine	LCD Monitor
AVCHD Progressive MP4	Panasonic LENS 28x Optical Zoom	BSI sensor	Full HD LCD
Sensor	BSI sensor	1/5.8-inch	2.7-inch