

Panasonic

Full-Frame Mirrorless Camera and Lens System



LUMIX S5



LUMIX S5 | LUMIX S 20-60mm F3.5-5.6 | 1/200 sec, F8, ISO100 | Adam Pretty



LUMIX S5 | LUMIX S PRO 24-70mm F2.8 | 1/400 sec, F2.8, ISO100 | Todd White



Moving Images Forward

LUMIX's unique approach to photographic expression combined with cinema-quality video performance.

The 24.2MP CMOS Sensor delivers high sensitivity and top image quality in both still photos and videos. Dual Native ISO technology further enhances video performance.

Responding to a wide range of needs, recording modes include 4K 60p 4:2:0 10-bit and 4K 30p 4:2:2 10-bit — plus 4K 8-bit with no limitation of video recording time.

V-Log and V-Gamut come preinstalled. With 14+ stops of dynamic range and a wide color spectrum, performance rivals that of a VariCam professional cinema camera.

Features high-speed, high-precision AF, and deep learning technology for recognition of human faces, eyes, heads, and bodies, as well as animals.

All in a full-frame mirrorless camera with a compact body.

LUMIX
Motion. Picture. Perfect.



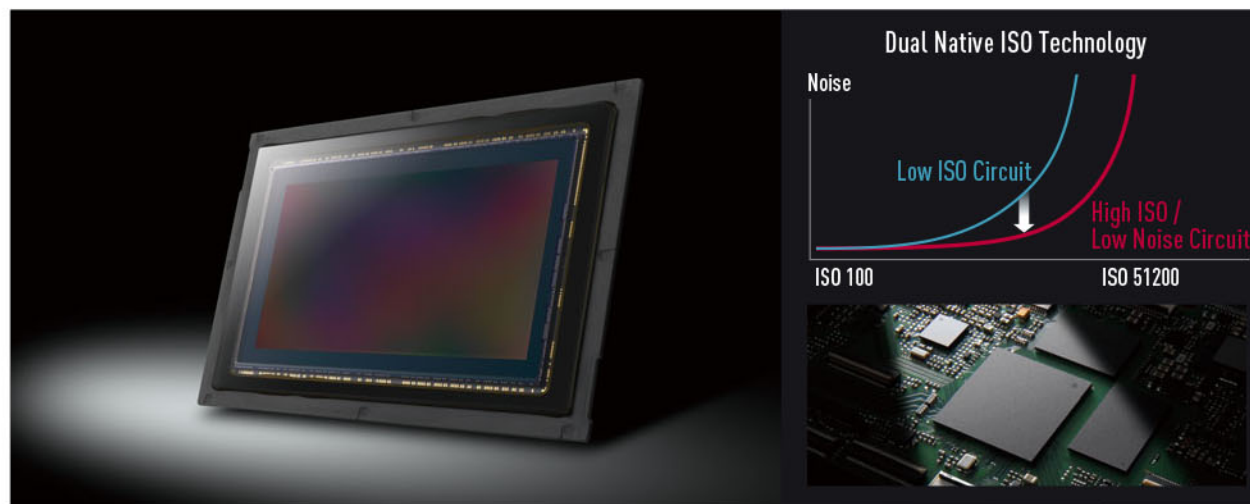
EXCEPTIONAL IMAGE QUALITY FOR PHOTO AND VIDEO

24.2MP Sensor with Dual Native ISO Technology

Whether you are taking stills or shooting video, the LUMIX S5 delivers uncompromising image quality. The image sensor features Dual Native ISO technology,* leveraging a dual-base ISO setting to minimize noise and maximize image quality from low to high sensitivity. This feature teams up with the Venus Engine to deliver maximum ISO 51200 / Extended ISO 204800 for minimal noise at high sensitivity and beautiful expression of dark areas in the frame. Whenever professional-level low-light shooting is required, the LUMIX S5 is ready for action. * Dual Native ISO operates automatically.

Newly Developed Shutter Unit

A new focal-plane shutter unit has been developed for the LUMIX S5. While highly compact, it achieves a shutter speed of 1/8000 second and the highest shutter functionality.



96MP High Resolution Mode with JPEG

In addition to RAW, the LUMIX S5 now supports JPEG file format during shooting, and RAW Processing during playback (RAW-to-JPEG conversion), for images that PC software simply can't match.

In High Resolution Mode, the camera automatically captures eight consecutive images while shifting the sensor using the Body I.S. (Image Stabilizer) mechanism. Then, the Venus Engine, which boasts high-speed signal processing, synthesizes the images into a 96-megapixel equivalent (12,000 x 8,000-pixel) RAW file. This mode is excellent for shooting ultra-detailed nature shots with a tripod, as well as other works of art that combine grandeur with precision.



CINEMA-QUALITY VIDEO PERFORMANCE

4:2:2 10-bit Internal Recording / HDMI Output

Multiple recording modes address the needs of modern videography, including image quality, flexibility, and creative expression. In addition to supporting 4K 60p/50p* 4:2:0 10-bit and 4K 30p/25p/24p 4:2:2 10-bit, the camera allows users to shoot in 4K 8-bit without limiting recording time. Moreover, the heat-dissipating structure developed for the LUMIX GH and SH series of cameras makes possible the combination of a full-frame sensor and a highly compact body.

In the 10-bit setting, 4:2:2 10-bit HDMI output is supported along with simultaneous external drive / SD card recording.** Users enjoy high-end cinema camera quality with the convenience of a compact camera body. Image quality that leverages the power of the full-frame sensor takes video to the expressive limit.

* In APS-C or PIXEL/PIXEL settings.

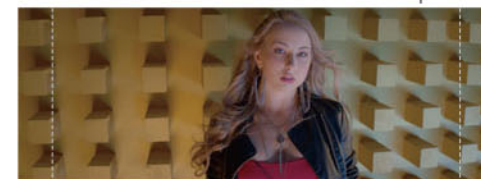
** SD card recording not available during 4K 60p/50p 4:2:2 10-bit HDMI output.



Anamorphic Recording

4K anamorphic video can be shot in the 4:3 aspect ratio. Designed to accommodate anamorphic lenses in a wide range of magnification rates, including 1.3x, 1.33x, 1.5x, 1.8x, and 2.0x, the Anamorphic Desqueeze Display function makes possible shooting while confirming the cinemascope-size image in-camera.

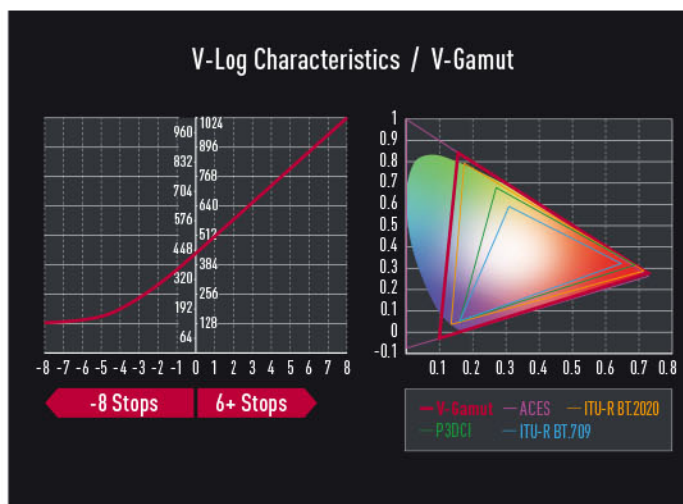
2.35:1 Aspect Ratio



14+ stops of V-Log and V-Gamut "VariCam Look"

Offering compatibility with Cinema VariCam Look, 14+ stops of dynamic range, and a very wide color spectrum, V-Log and V-Gamut come preinstalled. Users will enjoy impressively accurate color reproduction, subtle gradations from dark areas to highlights, and precise control of color data in post-production. The end result is more creative and satisfying color expression. Moreover, footage shot with the LUMIX S5 can be seamlessly edited with footage shot with VariCam cameras. As a further convenient touch, the LUT in use is displayed on the camera monitor.

The V-Log of the LUMIX S5 offers 14+ stops of dynamic range, which covers the PQ requirement of HDR, while V-Gamut covers the full HDR color spectrum, giving users access to HDR shooting wherever, whenever. In addition, HDR video in the HLG (Hybrid Log Gamma) format can be shot using Photo Style "Like2100."



7.5x Slow Motion and 60x Quick Motion

Slow & Quick motion mode supports both overcranking and undercranking. Users have access to 2.5x slow (24p/60 fps) in 4K and 7.5x super-slow (24p/180 fps) in FHD.* This feature is highly useful in creating emotional slow-motion footage and capturing rapid movement imperceptible to the naked eye. It is also possible to create comically rapid footage of up to 60x normal speed (60p/1 fps).

* The degree of effect varies depending on the recording format and frequency, and the angle of view narrows if a frame rate 180 fps is selected.

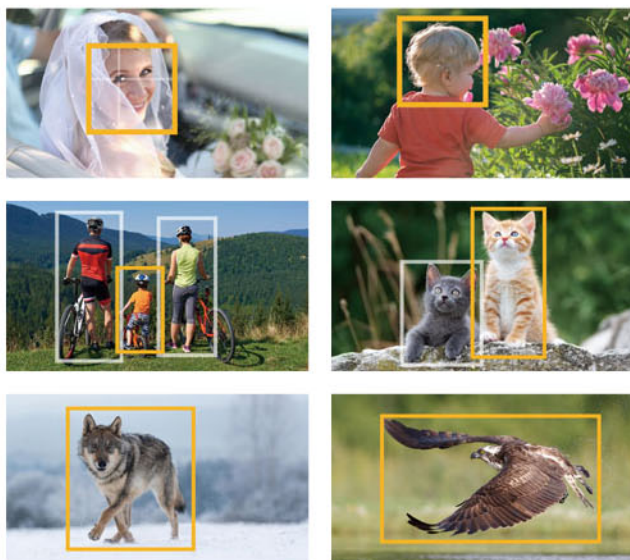


TOP-LEVEL BASIC PERFORMANCE

Autofocus Featuring Advanced AI Technology

Panasonic's advanced control technology encompasses sensor, engine, and lens to realize top-level focusing performance in every environment. To combine speed with precision, the sensor and lens communicate at a rapid 480fps, while DFD (Depth From Defocus) technology helps realize ultra-fast autofocus of approximately 0.08 sec.*

* 11EV, at wide-end with S-R24105 (CIPA) in LVF120 fps setting.



Deep learning technology makes possible the recognition of human faces, eyes, heads, and bodies, as well as common animals (canidae, felidae and birds). Moreover, human head recognition is performed with a new and improved subject recognition algorithm. Whether the user is shooting stills or video, the camera performs like an expert in recognizing and following human heads, even when they are tilted, small in the frame, or in motion. Those exceptional shots are now even easier to get.

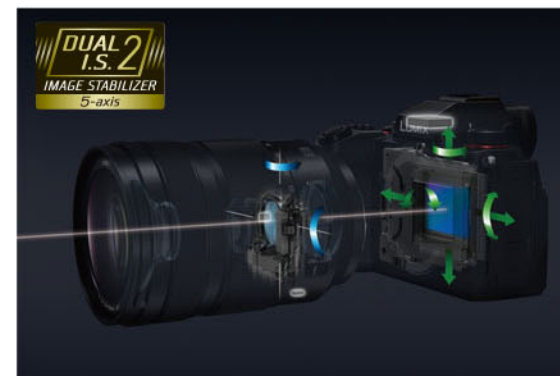
6.5-stop Dual I.S. 2 (Image Stabilizer)

It's difficult to handhold a camera at the best of times, but don't fret: with the 5-axis Dual I.S. 2 (Image Stabilizer),* intelligent compensation comes to your aid. This is the equivalent to 6.5 doublings of exposure duration, meaning you can use a 6.5-stop slower shutter speed up to tele-end.** The LUMIX S5 eliminates shake in both body and lens even at the telephoto setting. It also works in both photo and video recording, including 4K video. The astonishing power of the 5-axis Body I.S. with 5-stop compensation power*** corrects shake for all lenses, even those not equipped with O.I.S.

* 5-axis Dual I.S. 2 can be used with the lens S-R24105, S-E70200 and S-R70200 as of September 2, 2020.

** Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=200mm when S-E70200 is used.

*** Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=60mm when S-R2060 is used.



Dust and Splash-resistant

The tough body is ready to take on a variety of challenging shooting environments. The magnesium alloy full die-cast frame is highly durable, while sealing helps protect seam, dial, and button. The camera as a whole is dust- and splash-resistant.* In combination, these features help make shooting both productive and enjoyable in a wide range of weather conditions.

* Splash Resistant works in conjunction with the lenses that were specifically designed to support this feature. Dust and Splash Resistant does not guarantee that damage will not occur if this camera is subjected to direct contact with dust and water.



Double SD Card Slot

The camera features a Double SD Card Slot. Relay Recording mode relays recording to the other card slot after the first card runs out of free space during recording.* Backup Recording mode records the same data to the two cards at the same time.* Allocation Record mode allows you to specify the card slot to be used for recording still photographs and video.

* Cannot be used with AVCHD format. • SDXC Logo is a trademark of SD-3C, LLC.

1,840k-dot Free-angle LCD

The LUMIX S5 features approximately 1,840k-dot 3.0-inch LCD. With outstanding brightness and a wide color gamut, it offers high visibility for outdoor shoots. Its free-angle touch screen makes it easy to compose high- and low-angle shots, further adding to the convenience and flexibility of the camera.



2,360k-dot 0.74x OLED LVF

With approximately 2,360k dots resolution and 0.74x magnification, the OLED live viewfinder presents the subject with fine gradations and high clarity throughout. OLED displays are favored for their excellent responsiveness. The LVF of the LUMIX S5 is therefore able to offer an ultra-fast display speed of 120fps* with a time lag of only 0.005 sec., helping users keep quick-moving subjects in view.

* The display speed may be freely switched between 120fps and 60fps.



Wi-Fi 5GHz / Bluetooth

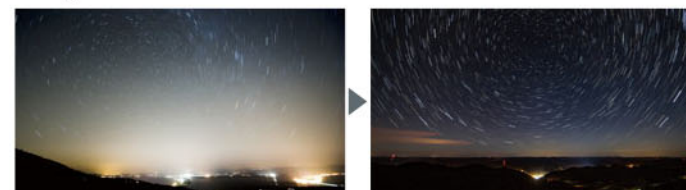
Using Wi-Fi 5GHz (IEEE802.11ac) and Bluetooth 4.2 (Low Energy), this feature allows you to connect your camera to a smartphone or tablet, send photos to these devices, and control your LUMIX S5 remotely. With Panasonic's LUMIX Sync app (Android / iOS), you can remotely control the shutter of your camera and access a wide range of photographic settings. You can even use LUMIX Sync to copy settings from one camera to another,* which is useful when managing multiple cameras in a shoot.

* Copying must be done between cameras of the same model.



Live View Composite

The camera takes multiple images, creating composite images from only those areas that vary in brightness. This feature is convenient for taking images of the night sky that show the light trails of stars or fireworks. Each time the shutter is operated, a composite image is displayed, allowing users to shoot while confirming the results in real time.



Bulb Shooting

Live View Composite

HLG Photo Mode

HLG Photo mode* supports a new style of photographic enjoyment on the screen of HDR-compatible devices — one in which the rendering of bright light is especially impressive. HSP files,** which compress a high degree of brightness, are displayed as images with breathtaking reproduction of dynamic range and extremely fine gradations of light and dark.

* "HLG (Hybrid Log Gamma)" is an international standard (ITU-R BT.2100) HDR format.
** "HSP" is an HDR picture format using HLG format video technology.



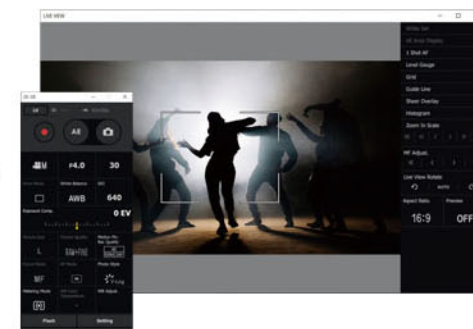
SDR Photo

HLG Photo

PC Software "LUMIX Tether" Camera Control

The LUMIX S Series allows tethered shooting via USB with "LUMIX Tether" PC software. It enables camera control and shooting while checking the image on a large PC screen.

LUMIX Tether for Streaming (Beta) is available for streaming.

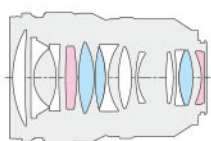


S SERIES LENSES DESIGNED FOR ALL CREATORS

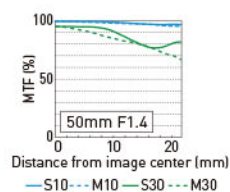


S-X50 LUMIX S PRO 50mm F1.4

LUMIX S PRO
Certified by LEICA

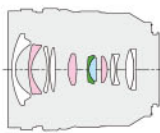


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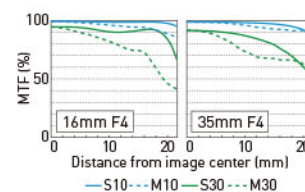


S-R1635 LUMIX S PRO 16-35mm F4

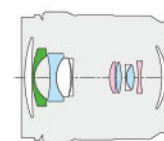
LUMIX S PRO
Certified by LEICA



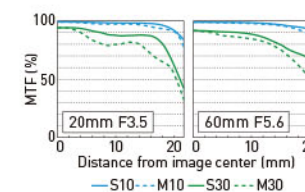
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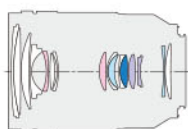
S-R2060 LUMIX S 20-60mm F3.5-5.6



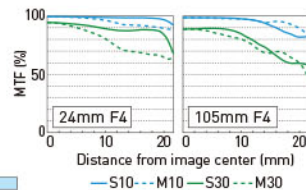
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S-R24105 LUMIX S 24-105mm F4 MACRO 0.I.S.

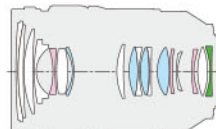


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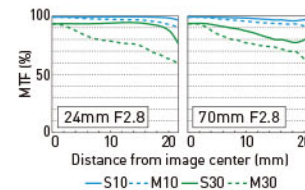


S-E2470 LUMIX S PRO 24-70mm F2.8

LUMIX S PRO
Certified by LEICA

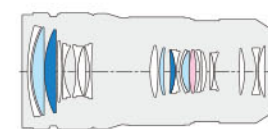


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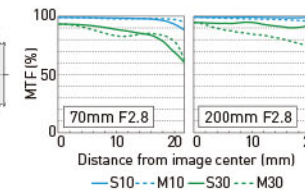


S-E70200 LUMIX S PRO 70-200mm F2.8 O.I.S.

LUMIX S PRO
Certified by LEICA



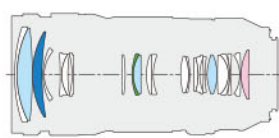
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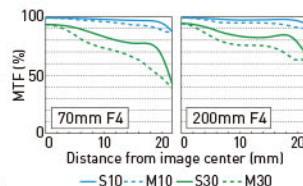
• For lenses that are capable of compensating distortion, the horizontal axis of the MTF shows the distance from the center of the corrected image

S-R70200 LUMIX S PRO 70-200mm F4 O.I.S.

LUMIX S PRO
Certified by LEICA



ASPH UED ED UHR



TELECONVERTER

Compatible with S-E70200 / S-R70200

DMW-STC14

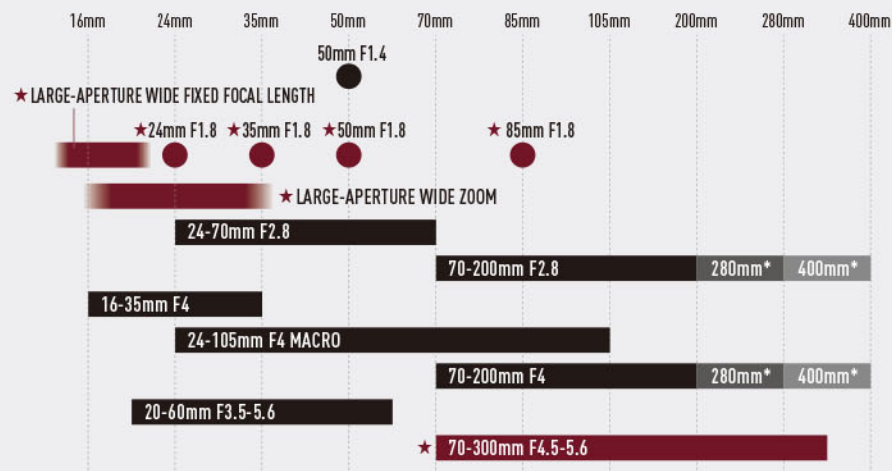


DMW-STC20



LUMIX S Series Lens Roadmap

★To be released in the future (as of September 2020).
* When the teleconverter is attached.



L MOUNT

LUMIX S PRO 16-35mm F4
S-R1635

LUMIX S PRO 24-70mm F2.8
S-E2470

LUMIX S PRO 50mm F1.4
S-X50

LUMIX S PRO 70-200mm F2.8 O.I.S.
S-E70200

LUMIX S PRO 70-200mm F4 O.I.S.
S-R70200

LUMIX S 20-60mm F3.5-5.6
S-R2060

LUMIX S 24-105mm F4 MACRO O.I.S.
S-R24105

Leica / SIGMA Lenses
L-Mount Alliance : www.l-mount.com

1.4x Teleconverter
DMW-STC14

Attachable to the S-E70200 and the S-R70200

2x Teleconverter
DMW-STC20

Attachable to the S-E70200 and the S-R70200

Battery Grip
DMW-BGS5

Battery Pack
DMW-BLK22

Battery Charger
DMW-BTC15

AC Adaptor
DMW-AC10*1

DC Coupler
DMW-DCC17*1

Standard Accessories

DC-S5

Bundled Software
(Download)

- LUMIX Tether
- LUMIX Tether for Streaming (Beta)
- LUMIX Webcam Software (Beta)
- PHOTOfunSTUDIO 10.1 PE
- SILKYPIX® Developer Studio SE
- LoLoScope Trial Version

Battery Pack

Shoulder Strap

Battery Charger

USB Connection
Cable (A-C)

AC Adaptor

External Flash
DMW-FL580L

External Flash
DMW-FL360L

External Flash
DMW-FL200L

LED Video Light
VW-LED1

XLR Microphone
Adaptor
DMW-XLR1

Stereo Shotgun
Microphone
DMW-MS2

Stereo Microphone
VW-VMS10

Shutter Remote
Control
DMW-RS2

Tripod Grip
DMW-SHGR1

Shoulder Strap
DMW-SSTG9

Soft Bag
DMW-BAG2

HDMI Cable
(HDMI TypeA)*3

SD / SDHC / SDXC
Memory Card*2

4KTV / HDTV

Blu-ray Disc™
Player

Personal Computer

*1 The AC Adaptor DMW-AC10 requires the DC coupler DMW-DCC17. The DC coupler DMW-DCC17 requires the AC Adaptor DMW-AC10. *2 *SDXC/SDHC Memory Card compatible with UHS Speed Class 3 (U3) must be used when recording motion pictures with MP4 in 4K, MOV, S8Q, 6K PHOTO or 4K PHOTO in camera. *3 For 4K video output, use an HDMI cable that has the HDMI logo on it, and that is described as "4K compatible". •The L-Mount Logo mark is a trademark or registered trademark of Leica Camera AG. •The SDXC/SDHC Memory Card can be used only if their logos are indicated on the equipment or in the operation manual. It cannot be used with equipment that supports only the SD Memory Card. •Confirm the operation information of compatible lenses at Customer Support <http://panasonic.jp/support/global/cs/dsc> (English). •Batteries made by other companies which have been certified by Panasonic may be used with these units, but we offer no guarantee as to the quality, performance or safety of such batteries. •Exercise care when purchasing batteries. Many fake or imitation batteries have been found among those sold at unusually low prices and those which customers cannot check for themselves before purchasing. •Please confirm the latest information about batteries on the following website. <http://panasonic.jp/support/global/cs/info/battery.html> (English).

TYPE											
Type		Digital Single Lens Mirrorless camera									
Lens mount		L-Mount									
Image sensor		35mm full-frame (35.6mm x 23.8mm) CMOS sensor									
Camera effective pixels / Total pixels		24.20 megapixels / 25.28 megapixels									
STILL IMAGE											
Recording file format		JPEG (DCF, Exif 2.31), RAW, HLG Photo (CTA-2072) 6K PHOTO*: MP4 (H.265/HEVC, Audio format: AAC (2ch)) *Extracted still images: JPEG (DCF, Exif 2.31) 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		6000x4000 (L), 4272x2848 (M), 3024x2016 (S), High Resolution Mode: 12000x8000 (XL), 8496x5664 (LL) 6K PHOTO: 5184x3456 / 4K PHOTO: 3504x2336, HLG PHOTO: 5984x4000 (Full-Res.), 3232x2160 (4K-Res.)									
MOTION PICTURE											
Latitude		14+ stops (V-Log)									
Recording file format		MOV: H.264/MPEG-4 AVC, H.265/HEVC (Audio format: LPCM (2ch 48kHz/16-bit)) MP4: H.264/MPEG-4 AVC, H.265/HEVC (Audio format: AAC (2ch))									
Switch NTSC / PAL		Yes (NTSC (59.94Hz) / PAL (50.00Hz))									
Slow & Quick		4K (APS-C, PIXEL/PIXEL): 1, 2, 5, 10, 15, 30, 60 fps, FHD (Full-frame): 1, 2, 5, 10, 15, 30, 60, 100, 120, 150*, 180* fps *Angle of view narrows if you select a frame rate with a number of frames 180. The AF mode switches to MF when the frame rate is set to of 150 fps or more.									
FULL	4K 3840x2160 FHD 1920x1080		4:2:2 10-bit	LongGOP	H.264	150Mbps	Yes	—	29.97p / 23.98p	25.00p	
			4:2:0 8-bit	LongGOP	H.264	100Mbps	—	—	29.97p / 23.98p	25.00p	
			4:2:2 10-bit	LongGOP	H.264	100Mbps	Yes	—	59.94p / 29.97p / 23.98p	50.00p / 25.00p	
			4:2:0 8-bit	LongGOP	H.264	100Mbps	—	—	59.94p / 29.97p / 23.98p	50.00p / 25.00p	
	MOV**	4K 3840x2160		4:2:0 10-bit	LongGOP	HEVC	200Mbps	Yes	—	59.94p	50.00p
				4:2:2 10-bit	LongGOP	H.264	150Mbps	Yes	—	29.97p / 23.98p	25.00p
				4:2:0 8-bit	LongGOP	H.264	150Mbps	—	—	59.94p	50.00p
				4:2:0 8-bit	LongGOP	H.264	100Mbps	—	—	29.97p / 23.98p	25.00p
		APS-C PIXEL/PIXEL Anamorphic 4K (4:3) 3288x2496		4:2:0 10-bit	LongGOP	HEVC	200Mbps	Yes	—	—	50.00p
				4:2:2 10-bit	LongGOP	H.264	150Mbps	Yes	—	29.97p / 23.98p	25.00p
				4:2:0 8-bit	LongGOP	H.264	150Mbps	—	—	—	50.00p
				4:2:0 8-bit	LongGOP	H.264	100Mbps	—	—	29.97p / 23.98p	25.00p
FHD 1920x1080				4:2:2 10-bit	LongGOP	H.264	100Mbps	Yes	—	59.94p / 29.97p / 23.98p	50.00p / 25.00p
4:2:0 8-bit				LongGOP	H.264	100Mbps	—	—	59.94p / 29.97p / 23.98p	50.00p / 25.00p	
FULL	4K 3840x2160 FHD 1920x1080		4:2:0 10-bit	LongGOP	HEVC	72Mbps	Yes	—	29.97p / 23.98p	25.00p	
			4:2:0 8-bit	LongGOP	H.264	100Mbps	—	—	29.97p / 23.98p	25.00p	
			4:2:0 8-bit	LongGOP	H.264	28Mbps	—	Yes	59.94p	50.00p	
			4:2:0 8-bit	LongGOP	H.264	20Mbps	—	Yes	29.97p	25.00p	
	MP4**		4:2:0 8-bit	LongGOP	H.264	24Mbps	—	Yes	23.98p	—	
			4:2:0 10-bit	LongGOP	HEVC	100Mbps	Yes	—	59.94p	50.00p	
			4:2:0 10-bit	LongGOP	HEVC	72Mbps	Yes	—	29.97p / 23.98p	25.00p	
			4:2:0 8-bit	LongGOP	H.264	100Mbps	—	Yes	29.97p / 23.98p	25.00p	
APS-C PIXEL/PIXEL FHD 1920x1080		4:2:0 8-bit	LongGOP	H.264	28Mbps	—	—	59.94p	50.00p		
		4:2:0 8-bit	LongGOP	H.264	20Mbps	—	—	29.97p	25.00p		
		4:2:0 8-bit	LongGOP	H.264	24Mbps	—	—	23.98p	—		
		4:2:0 8-bit	LongGOP	H.264	24Mbps	—	—	23.98p	—		
OTHER BASIC PERFORMANCE											
Viewfinder		Approx. 2.36 million dots OLED Live View Finder, Approx. 100% of field of view Magnification: Approx. 0.74x with 50 mm lens at infinity; -1.0 m ⁻¹ , when the aspect ratio is set to 3:2 Eye point / Diopter adjustment: Approx. 20 mm at infinity; -1.0 m ⁻¹ / -4.0 - +4.0 (dpt)									
Rear monitor		Approx. 1.84 million dots TFT LCD monitor, Free-angle, 3.0-inch (7.5cm), 3:2 aspect, Static touch control									

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