

SONY

ILCE-6600M/B

APS-C Mirrorless Interchangeable-Lens Camera + 18-135mm Lens

The Alpha 6600 includes a 24.2MP² Exmor™ CMOS image sensor, the latest BIONZ X™ image processor and a front-end LSI as implemented in Sony's full-frame cameras, which combine to deliver all-round enhancements in image quality and performance across all areas of photo and video capture.



Key Features

24.2MP² and incredible image quality

The Alpha 6600 boasts an impressive APS-C image sensor with approximately 24.2 effective megapixels, the latest BIONZ X™ image processing engine and the same front end LSI as used on Sony's acclaimed full-frame cameras to deliver outstanding image quality with rich detail and true-to-life color reproduction. Area specific noise reduction results in low noise even at high ISO which ranges from 100 - 32,000 (Expandable up to ISO 102,400). The design significantly increases readout speed, enabling functionality including 11fps continuous shooting⁵, 4K recording³ with full pixel readout without pixel binning and Full HD 120fps high-speed shooting.

Superior autofocus with 4D FOCUS™

The Alpha 6600 incorporates Sony's unrivaled 4D FOCUS™ system for unsurpassed fast autofocus (AF) acquisition time that can lock focus on even the fastest moving subject in as little as 0.02 seconds¹. It also boasts an incredible 425 phase detection and 425 contrast detection AF points that are densely positioned over 84% of the image area, effectively tracking subjects as they move across the frame. Moreover, the Alpha 6600 takes full advantage of its enhanced fast hybrid AF for movies in both HD and 4K³. Both AF detection accuracy and tracking performance have been boosted.

Advanced Real-time Eye AF, humans, animals and movie⁶

Advanced "Real-time Eye AF"⁶ employs artificial intelligence to detect and process eye data in real time, resulting in improved accuracy, speed and tracking performance of Eye AF. Eye AF can be employed for humans, animals and when recording movie⁶. With a half press of the shutter button, the camera can automatically detect the eyes of the subject and activate Eye AF in all autofocus modes. When in either AF-C or AF-A mode, eye capture is continuously maintained. Additionally, the preferred eye (right or left) of your subject can be selected as the focus point. Choices include Auto/Right Eye/Left Eye, and a Switch Right/Left Eye function is assignable to a custom function or the touchscreen panel.

Real-time Tracking Autofocus

"Real-time Tracking" is a state-of-the-art feature that utilizes a special object recognition algorithm that processes color, subject distance (depth), brightness (pattern) as spatial information, plus AI (Artificial Intelligence with machine learning) information including face and eye location, ensuring that all subjects can be captured with extreme accuracy and precision. This can be activated by a simple half press of the shutter button, or can be assigned to a custom function as well. The subject to be tracked can also be specified by touching it on the monitor when the Touch Tracking function is engaged.

Real-time Eye AF for animals⁶

Advanced AI-based subject recognition technology now allows fast, precise, automatic detection and tracking of animal eyes⁶. This new capability can vastly increase success rates when photographing animals in a variety of settings or pets at home. Real-time Eye AF animal mode can be initiated either by pressing an assigned custom button or by half-pressing the shutter button.

Real-time Eye AF for movies⁶

The Alpha 6600 debuts Real-time Eye AF for movie shooting⁶ in an APS-C camera. When activated, human eyes are automatically identified and precisely tracked with high precision and reliability, allowing the shooter to focus on the content itself as opposed to what is in focus or not. The same Touch Tracking functionality that is provided for stills is also available for movie shooting, easily initiating Real-time Eye AF tracking on a specified eye. Right/left eye selection is available for movies too.

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5-axis in-body image stabilization

5-axis SteadyShot™ INSIDE image stabilization system is used in this APS-C E-mount camera while maintaining a compact lightweight body. It accurately compensates for blur caused by camera shake – for up to 5-stops⁹ - from five different directions: vertical, horizontal, pitch, yaw and roll. This means that any lens attached to the Alpha 6600 will benefit from images stabilization, whether the lens has its own image stabilization or not. The 5-axis image stabilizing system excels during video recording and even compensates for blur caused by the photographer walking or running. You can even monitor the stabilizing effects of camera shake compensation in the viewfinder or LCD screen while shooting by pressing the shutter button halfway or magnifying the image, and while shooting movies by entering movie mode.

16-bit processing and 14-bit RAW output

Image sensor output is processed in 16-bit form by the front-end LSI and BIONZ X image processing engine before being output as compressed or uncompressed 14-bit RAW files that have smoother, more natural gradations for higher overall image quality. 14-bit RAW output is available even when shooting in silent or continuous mode.

Up to 11fps⁵ at 24.2MP with AE/AF tracking

The Alpha 6600 has been designed to allow for high resolution, continuous shooting at high frame rates. It features a front-end LSI that works with the image sensor, BIONZ X image processing engine and a newly designed shutter mechanism with 'braking feature' to enable continuous shooting at impressive speeds up to 11fps⁵ with continuous autofocus and auto-exposure tracking at full 24.2MP resolution while utilizing the mechanical shutter, and up to 8 fps³ with full AF/AE tracking while silent shooting.

4K movie³ w/ full pixel readout, no pixel binning

The Alpha 6600 offers internal 4K (QFHD: 3840 x 2160) recording³ in Super 35mm format with full pixel readout and no pixel binning at 2.4x oversampling⁴ (6K equivalent) for the ultimate 4K footage with exceptional detail and depth. Additional professional video features include; HDR (HLG), S-Gamut3/S-Log3 and 3, plus Gamma Display Assist, the ability to record Full HD at 120 fps for up to 5x slow motion HD video⁷, both a headphone jack and mic jack with XLR compatibility via the MI shoe, enhanced Zebra functionality, focus peaking, picture profile settings, as well as Time Code / User Bit, clean HDMI output and much more.

Touch Tracking for movies

Touch Tracking is beneficial for movie recording. Touch the subject to be tracked on the monitor, and the Real-time Tracking function will then process color, pattern (brightness), distance (depth), and face information to precisely and smoothly track the selected subject at the specified sensitivity and speed. It is also possible to half-press the shutter button or press the AF ON button while shooting to achieve fast focus (AF-S). This can be an advantage for weddings or documentaries, where there is only one chance to capture a scene. In such cases the focus area selected in advance is applied.

180-degree tiltable LCD touch screen for self-recording

The fully tiltable (180-degree), 3" (3.0-type) LCD flip screen with 921k-dots of high-resolution allows for simple and effective selfie-style shooting for both still image and video capture. Utilizing this capability, vloggers will be able to check and monitor composition throughout their entire creative process. The LCD screen is also equipped with touch functionality, with options for Touch Pad, Touch Focus, Touch Shutter and new Touch Tracking which quickly activates "Real-time Tracking" through the touch screen.

Ultra-fast OLED w/ EVF benefits and optical viewfinder immediacy

The 2.36 million-dot XGA OLED Tru-Finder electronic viewfinder has the ability to deliver continuous live shooting at up to 8 fps with AF/AE tracking - making it easy to track fast moving subjects - thanks to overall improvements in the EVF algorithm. This offers photographers a shooting experience with the immediacy of an optical viewfinder, while still offering all of the benefits of an electronic viewfinder including a live preview of exposure, white balance and several other camera settings. This continuous live view shooting can be set in 3 stages to match a variety of subjects: 8 fps, 6 fps and 4 fps.

Wi-Fi®/NFC™/QR code for easy file transfer and remote control⁸

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Easily connect with NFC or QR code (for non-NFC devices) to smartphones or tablets with the built-in Wi-Fi® and Sony's PlayMemories Mobile™ application available for free on the Android™ and iOS platforms⁸. Control your camera or transfer files to your device for fast and easy sharing without the need of a computer. It also supports Sony's growing range of PlayMemories Camera Apps™, which add a variety of creative capabilities to the camera. Then when you're done, you can use the free software to sort and manage your stills and video with PlayMemories Home™ or edit your RAW file with either Sony's Image Data Converter or Capture One Express (for Sony).

Professional rugged body¹⁰ and durable shutter mechanism

Designed for solid reliability and steady handling, the Alpha 6600's compact body is built to withstand the rigors of shooting in the field, thanks to an internal structure of the strong and rigid magnesium alloy body¹⁰. Sealing around the main buttons, dials, ports and doors are dust and moisture resistant⁹ with a double-layered structure that enhances sealing effectiveness at all camera body openings including the media compartment and terminal area. The highly durable and reliable shutter unit has been proven to endure approximately 200,000 shutter releases¹⁰ which ensure long-lasting shooting performance that takes into consideration the high-speed continuous shooting capabilities up to 11fps and the large number of photos shot by enthusiasts.

Make it your own with easy button and dial customization

Make operation more intuitive, quick and easy. You can assign any of 91 functions to any of 11 custom buttons. Independent function sets can be assigned for stills, movies, and playback. "My Dial" allows for frequently-used functions to be assigned to the control dial and control wheel. The My Menu function allows up to 30 frequently-used menu items to be registered. They can be re-ordered by frequency of use, and little-used items can be deleted, allowing the user to create a menu that reflects their usage patterns.

Interval Recording⁷ for time-lapse

Interval shooting⁷ (continuous shooting with a set interval) is possible to create time-lapse movies, without requiring an app or external interferometer. Shooting interval can be set to anywhere between 1 second and 60 seconds, and the number of shots to anywhere from 1 to 9999. AE tracking sensitivity can be set to "High", "Mid" or "Low" during interval shooting to control your exposure and silent shooting can be activated to reduce shutter vibration. To extend shooting periods, a mobile battery can be used while the internal battery remains in the camera. Still images shot can be edited into a time-lapse movie on a computer with the latest version of Imaging Edge software (Remote/Viewer/Edit) and PlayMemories Home.

Slow and quick motion⁷

Slow and quick motion⁷ offers an almost endless variety of creative ways to express the passage of time. Frame rates from 1 fps to 120fps (100fps) can be selected in eight steps for full HD up to 50 Mbps; 60x quick motion/5x slow in NTSC and 50x quick motion/4x slow in PAL.

Designed for a pro-workflow with Picture Profiles, S-Log and Gamma Display Assist

The Alpha 6600 is equipped with S-Log3 and S-log2 gamma, common to Sony's range of professional video cameras. This expands the dynamic range by up to 1300% to minimize clipped highlights and loss of detail in shadows up to approximately 14-stop latitude. The included picture profiles allow users to adjust settings like gamma, black, level and color, which can be saved for use in a multi-camera shoot. It also has clean 4:2:2 8-bit Full HD and 4K output via HDMI®, time code/user bit for easier editing, synchronous recording feature with compatible devices. In addition, the α6500 features Gamma Display Assist which displays images with the brightness and contrast close to how the image will appear after grading. This allows users to capture a flat S-log image while making it easier to control focus, contrast and exposure using the LCD monitor.

4K movie transfer to smartphone⁸

By using the newly introduced smartphone app Imaging Edge Mobile, high-bitrate movies including 4K can be transferred to smartphones (Probability of transfer / playback depends on the performance of the smartphone). Refer to the product information for Imaging Edge Mobile for details

Imaging Edge desktop applications

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To support an efficient, high speed, connected professional workflow, Sony provides "Imaging Edge" desktop applications. Use "Remote" to control and monitor shooting live on your PC screen; "Viewer" to quickly preview, rate, and select photos from large image libraries; and "Edit" to develop RAW data into high-quality photos for delivery. Get the best from Sony RAW files, and manage your productions more efficiently. To maximize convenience in image transfer, when utilizing the latest version of Sony's Imaging Edge Mobile™ application, the camera can now transfer images to a connected smartphone even if the camera's power is set to OFF. Refer to the download page for details: <http://www.sony.net/disoft/d/>

Extended endurance

Sony's high-capacity Z batteries and circuitry designed for low power consumption make it possible to shoot up to 810 still images when using the LCD monitor or 710 images when using the viewfinder on a single charge⁹, despite substantial increases in sensor and EVF resolution.

Specifications

Camera	
Lens Compatibility	Sony E-mount lenses
Lens Mount	E-mount
Camera Type	Interchangeable lens digital camera
Imaging Sensor	
Imaging Sensor	APS-C type (23.5 x 15.6mm) Exmor CMOS sensor
Anti Dust	Yes Charge protection coating on optical filter and image sensor shift mechanism Charge protection coating on optical filter and image sensor shift mechanism
Pixel Gross	Approx. 25.0 megapixels
Effective Picture Resolution	Approx. 24.2 megapixels
Color Filter System	R, G, B primary color
Recording	
Color Space	sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with TRILUMINOS Color
Still Image Mode	RAW RAW & JPEG (Extra fine, Fine, Standard) JPEG (Extra fine, Fine, Standard)
Still Image Size 16:9	L: 6000 x 3376 (20M) M: 4240 x 2400 (10M) S: 3008 x 1688 (5.1M)
Still Image Size 1:1	L: 4000 x 4000 (16M) M: 2832 x 2832 (8.0M) S: 2000 x 2000 (4.0M)
Still Image Size 3:2	L: 6000 x 4000 (24M) M: 4240 x 2832 (12M) S: 3008 x 2000 (6.0M)

Video Resolution	XAVC S 4K: 3840 x 2160 / 30p @ Approx.100Mbps 3840 x 2160 / 25p @ Approx.100Mbps 3840 x 2160 / 24p @ Approx.100Mbps 3840 x 2160 /30p @ Approx.60Mbps 3840 x 2160 / 25p @ Approx.60Mbps 3840 x 2160 /24p @Approx.60Mbps
	XAVC S HD: 1920 x 1080 /120p @ Approx.100Mbps 1920 x 1080 / 100p @ Approx.100Mbps 1920 x 1080 / 120p @ Approx.60Mbps 1920 x 1080 / 100p @ Approx.60Mbps 1920 x 1080 / 60p @ Approx.50Mbps 1920 x 1080 / 50p @ Approx.50Mbps 1920 x 1080 / 30p @ Approx.50Mbps 1920 x 1080 / 25p @ Approx.50Mbps 1920 x 1080 / 24p @ Approx.50Mbps 1920 x 1080 / 60p @ Approx. 25Mbps 1920 x 1080 / 50p @ Approx. 25Mbps 1920 x 1080 / 30p @ Approx. 16Mbps 1920 x 1080 / 25p @ Approx. 16Mbps
	AVCHD: FX - 1920 x 1080 / 60i @ Maximum bit-rate 24Mbps FX - 1920 x 1080 / 50i @ Maximum bit-rate 24Mbps FH - 1920 x 1080 / 60i @ Average bit-rate 17Mbps FH - 1920 x 1080 / 50i @ Average bit-rate 17Mbps
Still Image File Format	JPEG (DCF Ver. 2.0, Exif Ver.2.31, MPF Baseline compliant), RAW (Sony ARW 2.3 format)
Viewfinder	
Type	1.0 cm (0.39 type) electronic viewfinder (color)
Diopter Adjustment	-4.0 to +3.0m ⁻¹
Field of View	100%
Magnification	Approx. 1.07x (35mm camera equivalent: Approx. 0.70x) with 50mm lens at infinity, -1m ⁻¹
Brightness control	Auto/Manual (5 steps between -2 and +2)
Color temperature control	Manual (5 steps)
Display Contents	Graphic Display Display All Info. No Disp. Info. Digital Level Gauge Histogram
Eye point	Approx. 23mm from the eyepiece lens, 21.4mm from the eyepiece frame at -1m ⁻¹ (CIPA standard)
Finder Frame Rate Selection	NTSC mode: STD 60fps / HI 120fps PAL mode: STD 50fps / HI 100fps
Number of dots	2 359 296 dots
Face detection	
Face selection	Yes
Max. number of detectable faces	8
Modes	Face Priority in AF (On/Off), Face Priority in Multi Metering (On/Off), Regist. Faces Priority (On/Off)
Flash	
Control	Pre-flash TTL
External flash	Sony α System Flash compatible with Multi Interface Shoe, attach the shoe adaptor for flash compatible with Auto-lock accessory shoe
FE Level Lock	Yes

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Flash Bracketing	3/5/9 frames selectable. With 3 or 5 frames, in 1/3, 1/2, 2/3, 1.0, 2.0, 3.0 EV increments, with 9 frames, in 1/3, 1/2, 2/3, 1.0 EV increments.
Flash Compensation	+/- 3.0 EV (switchable between 1/3 and 1/2 EV steps)
Flash Modes	Flash off Autoflash Fill-flash Slow Sync. Rear Sync. Red-eye reduction (on/off selectable) Wireless control* Hi-speed sync* **With compatible external flash
Interface	
Remote Commander	Yes (IR remote control/Bluetooth remote control)
HD Output	HDMI micro connector (Type-D) BRAVIA Sync (Control for HDMI) PhotoTV HD 4K movie output/4K still image PB
NFC	Yes (NFC forum Type 3 Tag compatible, One-touch remote, One-touch sharing)
Wi-Fi	Yes (Wi-Fi Compatible, IEEE 802.11b/g/n (2.4GHz band))*Yes (Wi-Fi Compatible, IEEE 802.11b/g/n (2.4GHz band))*(Configuration method/Access method) WPS or manually /infrastructure mode. When connecting to smartphones, the camera can always work as a base without a wireless access point. (Security: WEP/WPA-PSK/WPA2-PSK)
Weights and Measurements	
Dimensions (Approx.)	4 3/4 x 2 3/4 x 2 3/4 inches 120.0 x 66.9 x 69.3mm), 4 3/4 x 2 3/4 x 2 3/8 inches (120.0 x 66.9 x 59.0mm) (FROM GRIP TO MONITOR)
Weight (Approx.)	With battery and memory card included: 11lb 1.8 oz (503 g)
Weight(Approx) (Main unit only)	Body only : 14.8 oz (418 g)
Power	
Battery Type	One rechargeable battery pack NP-FZ100
Number of Still Images	Approx. 720 shots (Viewfinder) / Approx. 810 shots (LCD monitor) (CIPA standard)
Power Consumption (in View Finder Operation)	Still images: approx. 2.7W (with E 18-135mm F3.5-5.6 OSS lens attached), Movies: approx. 3.9W (with E 18-135mm F3.5-5.6 OSS lens attached)Still images: approx. 2.7W (with E 18-135mm F3.5-5.6 OSS lens attached), Movies: approx. 3.9W (with E 18-135mm F3.5-5.6 OSS lens attached) With LCD Screen: Still images: approx. 2.4W (with E 18-135mm F3.5-5.6 OSS lens attached), Movies: approx. 3.9W (with E 18-135mm F3.5-5.6 OSS lens attached)
Internal battery charge	Yes
Movies (actual recording)	Approx. 720 shots (Viewfinder) / Approx. 810 shots (LCD monitor) (CIPA standard)
Movies (continuous recording)	Approx. 250 min (Viewfinder) / Approx. 250 min (LCD monitor) (CIPA standard)
USB power supply	Yes
Audio/ Microphone	
Microphone	Built-in, stereo
Audio/ Speaker	
Speaker	Built-in,monaural
Clear Image Zoom	
Movies	Approx. 1.5x (4K), Approx. 2x (HD)
Still images	Approx. 2x
Custom function	
Custom key settings	Yes
Programmable Setting	Yes (Body 2 sets /memory card 4 sets)
Digital zoom	
Digital zoom (Movie)	Approx. 4x

Digital zoom (Still images)	L: Approx. 4x M: Approx. 5.7x S: Approx. 8x
Smart zoom (Still images)	M: Approx. 1.4x S: Approx. 2x
Drive	
Drive modes	Single Shooting Continuous shooting (Hi+/Hi/Mid/Lo selectable) Self-timer Self-timer (Cont.) Bracket: Single Bracket: Cont. White Balance bracket DRO bracket
Self-timer	10 sec. delay/5 sec. delay/2 sec. delay/Continuous self-timer (3 frames after 10 sec. delay/5 frames after 10 sec. delay/3 frames after 5 sec. delay/5 frames after 5 sec. delay/3 frames after 2 sec. delay/5 frames after 2 sec. delay)/Bracketing self-timer (Off/2 sec. delay/5 sec. delay/10sec. delay)
Speed (approx., max.)	Continuous shooting: Hi+: 11 fps, Hi: 8 fps, Mid: 6 fps, Lo: 3 fps
Exposure control	
AE Lock	Locked when shutter button is pressed halfway. Available with AE lock button. (On/Off/Auto) Still images: ISO 100-32000 ((ISO numbers up from ISO 50 to ISO 102400 can be set as expanded ISO range.), AUTO (ISO 100-6400, selectable lower limit and upper limit) Movies: ISO 100-32000 equivalent, AUTO (ISO 100-6400, selectable lower limit and upper limit)
Bracketing	Bracket: Cont., Bracket: Single, 3/5/9 frames selectable. With 3 or 5 frames, in 1/3, 1/2, 2/3, 1.0, 2.0, or 3.0 EV increments, with 9 frames, in 1/3, 1/2, 2/3, or 1.0 EV increments.
Exposure compensation	+/- 5.0EV (1/3 EV, 1/2 EV steps selectable)
Metering sensitivity	EV-2 to EV20 (at ISO100 equivalent with F2.0 lens attached)
Metering sensor	Exmor CMOS sensor
Metering type	1200-zone evaluative metering
Modes	AUTO(iAuto) Programmed AE (P) Aperture priority (A) Shutter-speed priority (S) Manual (M) Movie (Programmed AE (P) / Aperture priority (A) / Shutter-speed priority (S) / Manual (M)) Slow & Quick Motion (Programmed AE (P) / Aperture priority (A) / Shutter-speed priority (S) / Manual (M)) Scene Selection
Scene Selection	Portrait Sports Action Macro Landscape Sunset Night Scene Hand-held Twilight Night Portrait Anti Motion Blur
Focus system	
AF illuminator	Yes (with Built-in LED type)
AF illuminator range	Approx. 0.3- approx. 3.0m (with E PZ 16-50mm F3.5-5.6 OSS lens attached)
Eye AF	(Still images) Human(Right/Left Eye Select) / Animal, (Movie) Human(Right/Left Eye Select)
Eye-start AF	Yes (only with LA-EA2 or LA-EA4 attached (Sold separately))

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Focus area	Wide (425 points (phase-detection AF), 425 points(contrast-detection AF)) / Zone / Center / Flexible Spot (S/M/L) /Expanded Flexible Spot/ Tracking (Wide / Zone / Center / Flexible Spot (S/M/L)/Expanded Flexible Spot)
Focus point	425 points (phase-detection AF) / 425 points (contrast-detection AF)
Focus sensor	Exmor CMOS sensor
Other Features	Predictive control, Focus lock, Swt.V/H AF Area, AF Area Regist., Circ. of Focus Point
Sensitivity range	EV-2 to EV20 (ISO100 equivalent with F2.0 lens attached)
Type	Fast Hybrid AF (phase-detection AF/contrast-detection AF)
AF micro adjustment	Yes (Sold separately) with LA-EA2 or LA-EA4
Eye-start AF	Yes (only with LA-EA2 or LA-EA4 attached (Sold separately))
Interface	
Bluetooth	Yes (Bluetooth Standard Ver. 4.1 (2.4GHz band))
Headphone Terminal	Yes
Multi / Micro USB Terminal	Yes
Multi Interface Shoe	Yes
PC Remote	Yes
Lens compensation	
Lens compensation	Peripheral Shading, Chromatic Aberration, Distortion
LCD screen	
Adjustable angle	Up by approx. 180 degrees, Down by approx. 74 degrees
Brightness control	Manual (5 steps between -2 and +2), Sunny Weather mode
Display Contents	Graphic Display Display All Info No Disp. Info Digital Level Gauge Histogram For viewfinder Monitor Off
Focus Check	Yes Focus Magnifier (5.9x, 11.7x)
Grid Line	Yes (Rule of 3rds Grid/Square Grid/Diag. + Square Grid/Off)
Number of dots (total)	921 600 dots
Peaking MF	Yes (Level setting: High/Mid/Low/Off, Color: Red/Yellow/Blue/White)
Quick Navi	Yes
Real-time image-adjustment display	On/Off
Touch panel	Yes
Type	7.5cm (3.0-type) wide type TFT
WhiteMagic	Yes
Zebra	Yes (selectable level + range or lower limit as custom setting)
Movie Function	
AF Drive Speed	Yes
AF Tracking Duration	Yes
Audio Level Display	Yes
Audio Rec Level	Yes
Auto Slow Shutter	Yes
Clean HDMI Info.	ON/OFF selectable

HDMI Output	3840 x 2160 (30p) 3840 x 2160 (25p) 3840 x 2160 (24p) 1920 x 1080 (60p) 1920 x 1080 (60i) 1920 x 1080 (50p) 1920 x 1080 (50i) 1920 x 1080 (24p), YCbCr 4:2:2 8bit / RGB 8bit
PAL/NTSC Selector	Yes
REC Control	Yes
TC/UB	Yes (TC Preset/UB Preset/TC Format/TC Run/TC Make/UB Time Rec)
Operating Temperature	
Operating temperature	32 - 104 degrees F / 0 - 40 degrees C
Other Features	
Area Setting	Yes
Clock Function,Setting	Yes
Help guide	Yes
Shop Front Mode	Yes
Print	
Compatible standards	Exif Print, Print Image Matching III, DPOF setting
Recording system	
File system	FAT12, 16, 32, exFAT
Media	Memory Stick PRO Duo Memory Stick PRO-HG Duo Memory Stick Micro (M2) SD memory card SDHC memory card (UHS-I compliant) SDXC memory card (UHS-I compliant) microSD memory card microSDHC memory card microSDXC memory card
Memory Card Slot	Multi slot for Memory Stick Duo/SD memory card
Recording system (movie)	
Audio recording format	XAVC S: LPCM 2ch AVCHD: Dolby Digital (AC-3) 2ch, Dolby Digital Stereo Creator
Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia, Style Box (1-6), (Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-3 to +3 steps))
Picture Effect	Posterization (Color), Posterization (B/W), Pop Color, Retro Photo, Partial Color (R/G/B/Y), High Contrast Monochrome, Toy Camera (Normal/Cool/Warm/Green/Magenta), Soft High-key
Recording format	XAVC S AVCHD format Ver. 2.0 compliant
Video compression	XAVC S: MPEG-4 AVC/H.264, AVCHD: MPEG-4 AVC/H.264
Recording system (still image)	
Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia, Style Box (1-6), (Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-3 to +3 steps))
Dynamic Range functions	Off, Dynamic Range Optimizer (Auto/Level (1-5)), Auto High Dynamic Range (Auto Exposure Difference, Exposure Difference Level (1-6 EV, 1.0 EV step))
Picture Effect	8 types: Posterization (Color), Posterization (B/W), Pop Color, Retro Photo, Partial Color (R/G/B/Y), High Contrast Monochrome, Toy Camera (Normal/Cool/Warm/Green/Magenta), Soft High-key, Rich-tone Monochrome
Playback	

Modes	Single (with or without shooting information Y RGB histogram & highlight/shadow warning) 12/30-frame index view Enlarged display mode (L: 16.7x, M: 11.8x, S: 8.3x) Auto Review (10/5/2 sec, Off) Image orientation (Auto/Manual/Off selectable) Slideshow Folder selection (Date/ Still/ AVCHD/XAVC S HD/XAVC S 4K) Forward/Rewind (movie) Delete Protect Rating Display as Group
Photo Capture	Yes
Shutter	
Electronic Front Curtain Shutter	Yes (ON/OFF)
Flash sync. speed	1/160 sec.
Shutter speed	Still images: 1/4000 to 30 sec, Bulb, Movies: 1/4000 to 1/4 (1/3 steps), up to 1/60 in AUTO mode (up to 1/30 in Auto slow shutter mode)
Silent Shooting	Yes (ON/OFF)
Type	Electronically-controlled, vertical-traverse, focal-plane type
Slow & Quick Motion (S&Q)	
Image frame rate	NTSC mode: 1fps, 2fps, 4fps, 8fps, 15fps, 30fps, 60fps, 120fps PAL mode: 1fps, 2fps, 3fps, 6fps, 12fps, 25fps, 50fps, 100fps
Image size (frame rate)	NTSC mode: 1920x1080 (60p, 30p, 24p) PAL mode: 1920x1080 (50p, 25p)
White balance	
AWB micro adjustment	Yes (G7 to M7, 57-step) (A7 to B7, 29-step)
Bracketing	3 frames, H/L selectable
Modes	Auto / Daylight / Shade / Cloudy / Incandescent / Fluorescent (Warm White / Cool White / Day White / Daylight) / Flash / Underwater / Color Temperature (2500 to 9900K) & color filter (G7 to M7 (57-step), A7 to B7 (29-step)) / Custom
Priority Set in AWB	Yes
Wi-Fi	
Send to Computer	Yes
View on Smartphone	Yes
View on TV	Yes
Accessories	
Supplied Accessories	SEL18135 Lens hood Lens cap Lens rear cap Rechargeable Battery NP-FZ100 AC Adaptor (AC-UUD12) Shoulder strap Body cap Accessory shoe cap Eyepiece cup Micro USB cable

1. Based on Sony research, CIPA-guideline-compliant internal measurement with an E 18-135mm F3.5-5.6 OSS lens mounted, Pre-AF off and viewfinder in use.

2. Approximately, effective megapixels

3. 3840x2160 pixels. A Class 10 or higher SDHC/SDXC memory card is required to record movies in the XAVC S format. UHS-1 (U3) SDHC/SDXC card is required for 100Mbps

4. Standard ISO 100 up to ISO 32000 expandable to ISO 100 to ISO 51200 for still images

5. High-speed continuous shooting is available at up to approx. 11fps in "Hi+" continuous shooting mode and up to approx. 8fps in "Hi" continuous shooting mode. Maximum fps will depend on camera settings.

6. Accurate focus may not be achieved with certain subjects in certain situations... Real-time Eye AF for Animals supports still images only and cannot be used in combination with tracking. Does not work with some types of animal.

7. Wi-Fi does not work during interval shooting

8. Imaging Edge Mobile Ver. 7.2 or later is required

9. Based on Sony research

10. Construction aims to prevent moisture and dust ingress but is not guaranteed to be completely moisture- and dust-proof."