

# SONY

## ILCA-99M2

### **α99 II Full Frame Translucent Mirror A-mount Camera**



Unprecedented resolution and unmatched speed. Capture 42.4MP at up to 12fps continuous shooting with AE/AF tracking and stunning 4K video. Stay focused with the world's first 79 hybrid AF cross-point array for unmatched AF tracking and 4D Focus hybrid phase AF system that combines dedicated 79-point AF sensor and wide 399-point focal plane phase detection on the camera's imaging sensor.

#### **Features**

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##### **42.4MP Full-frame back-illuminated Exmor R® CMOS sensor**

The 35mm full-frame back-illuminated Exmor R® CMOS sensor produces high resolution 42.4-megapixel images and stunning 4K video. The back-illuminated structure allows for fast readout of large volume of data while the copper wiring layer (instead of aluminum) allows for faster transmission speed. No low-pass filter results in maximum resolution from the sensor and combined with the gapless on-chip lens design and AR (anti-reflective) coating on the surface of the sensor's glass seal - dramatically improving light collection efficiency - even though the pixels are smaller than lower resolution full-frame sensors. 16-bit processing with both compressed or uncompressed 14-bit RAW files are readily available based on user preferences. The results are truly remarkable - with incredibly detailed stills and video, high dynamic range, high sensitivity and low noise across an ISO range of 100-25600, expandable to ISO 50 - 102,400.

##### **World's first 79 hybrid AF cross-point array<sup>3</sup> for unmatched AF tracking**

The α99 II features the world's first 79 hybrid AF cross-point array<sup>3</sup> for unmatched AF tracking. Incorporating both a dedicated high speed, high-density phase detection AF sensor with 79 AF-points (15 cross points) with both vertical and horizontal detection and a 399-point focal plane AF sensor with vertical detection over a wide area of the frame. The 79 superimposed points operate as fully selectable hybrid cross points which allows for fast and precise focusing with just about any type of subject.

##### **Up to 12fps<sup>1</sup> at 42.4MP with AE/AF tracking<sup>2</sup>**

The α99 II has been designed to allow for high resolution, continuous shooting at high frame rates. The camera features a new front-end LSI that works with the image sensor, BIONZ X image processing engine and a newly designed shutter unit to enable continuous shooting at impressive speeds up to 12fps<sup>1</sup> with continuous AF/AE tracking<sup>2</sup> at full 42.4MP resolution. Thanks to a large buffer, these shots can be viewed immediately after shooting, even when in high-speed continuous shooting mode.

##### **4D Focus hybrid AF system**

The impressive 4D Focus hybrid AF features a precision 79-point dedicated phase detection AF sensor combined with 399 focal plane phase detection AF points<sup>7</sup> - the world's largest array of on-sensor AF coverage<sup>11</sup>. Uniquely combining the benefits of a dedicated Phase AF module and on-sensor Phase AF points, incredibly precise autofocus performance and advanced subject tracking is provided for high-speed subjects moving across the frame. Translucent Mirror Technology, with no moving mirror, ensures steady, continuous AF operation and live image preview during both still image and video shooting. The precision AF system also performs exceptionally in low-light conditions, as it will function properly in brightness levels as low as EV-4<sup>12</sup> and at high ISO levels where most other cameras struggle.

##### **AF range control**

Users can set the autofocus range of distance from the camera in which subjects can be focused. The camera will avoid focusing on subjects that are out of the selected range. By limiting the AF range, users can prevent unwanted focusing on foreground and background objects.

##### **Advanced autofocus features**

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With Expand Flexible Spot, the  $\alpha$ 99 II automatically uses AF points surrounding the selected point to support precise focus if the selected AF point is not positioned on your subject directly. While Eye AF automatically detects and tracks an eye of even a moving subject (in AF-C mode), for more focusing accuracy. Continuously track a moving subject once with lock-on AF.

## **Super 35mm or full-frame 4K video<sup>4</sup>**

Choose Super 35mm or full-frame 4K<sup>4</sup> to best suit the video capture your artistic vision requires. Full pixel readout with no pixel binning<sup>10</sup> in Super 35mm format generates approximately 1.8 times the data required for 3840 x 2160 4K movies. That data is then oversampled to produce beautiful 4K imagery with spectacular resolution and minimal moiré effect. The  $\alpha$ 99 II is also capable of recording 4K across the full width of the full frame sensor, with the exceptional control of plane of focus that only full-frame format provides.

## **5-axis in-body image stabilization optimized for 42.4MP full-frame**

The 5-axis SteadyShot™ INSIDE image stabilization system is fine-tuned for high-resolution image sensors. It accurately compensates for blur caused by camera shake – for up to 4.5 stops<sup>13</sup> - from five different directions: vertical, horizontal, pitch, yaw and roll. This means that any lens attached to the  $\alpha$ 99 II will benefit from images stabilization, regardless of whether the lens has its own image stabilization. Compensation across 5-axis of movement excels during video recording and even helps fight blur caused by the photographer walking or running. It's a true marvel of engineering. 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.

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

The 2.36 million-dot XGA OLED Tru-Finder (0.78x viewfinder magnification) features ZEISS® T\* coating that greatly reduces reflections and optics with fluorine a coating that helps avoid dust, water, oil or fingerprints from sticking. When is set in continuous shooting mode set to 'Hi', the  $\alpha$ 99 II has the ability to deliver continuous live view shooting at up to 8 fps with AF/AE tracking making it easy to keep up with fast moving subjects minimal display lag thanks to overall improvements in the EVF algorithm. This provides photographers with all the benefits of an electronic viewfinder including a live preview of exposure, white balance and several other camera settings, while offering the experience and immediacy of an optical viewfinder. This continuous live view shooting can be set in 3 stages to match a variety of subjects: 8 fps, 6 fps and 4 fps.

## **A host of pro video features for 4K<sup>4</sup> and Full HD**

The  $\alpha$ 99 II has the ability to record 4K video internally with full pixel readout and no pixel binning through usage of the professional and friendly XAVC S format<sup>4</sup>. The camera is capable of recording high quality footage at 100Mbps for 4K and up to 100Mbps at 120 fps for Full HD4. It also offers a new 'Slow and Quick' mode (S&Q) that supports both slow motion and quick motion from 1 fps to 120 fps in 8 steps. A host of other features for professional movie production workflow are also included, such as zebra for easier exposure adjustment, peaking for easy manual focusing, time code, clean 4:2:2 HDMI output as well as picture profiles, S-Log3/S-Log2, S-Gamut and gamma display assist for real time S-Log monitoring.

## **Wi-Fi®/NFC™/QR code for easy file transfer and remote control<sup>8</sup>**

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 Android™ and iOS platforms<sup>8</sup>. 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).

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## **Professional rugged body and durable shutter mechanism**

The compact  $\alpha$ 99 II is a high-quality, high-precision shooting tool built for professionals in the real world with a rugged magnesium alloy body that combines high strength with light weight. Sealing around the main buttons, dials, ports and doors are dust and moisture resistant<sup>9</sup> 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 300,000 shutter releases which ensure long-lasting shooting performance that takes into consideration the high-speed continuous shooting capabilities up to 12fps and the large number of photos shot by professionals.

## **Slow and quick motion**

Slow and quick motion 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.

## **Photo capture from video**

High-quality 8-megapixels stills can be extracted from 4K video and 2-megapixels from Full HD video in camera during playback and stored as separate files on the media card.

## **Silent multi-controller**

The silent Multi Controller introduced in the original  $\alpha$ 99 has been improved and now offers a click-stop ON/OFF switch in addition to allowing selectable control of aperture, shutter speed, ISO, exposure compensation, AF area, AF mode and other settings. The silent multi-controller is especially helpful for changing settings during movie shooting without affecting audio.

## **Three-way Tilt and Swivel LCD maximizes shooting function**

The  $\alpha$ 99 II incorporates a large 3" TFT LCD with 1,228,800 dots pixel count and WhiteMagic™ technology for bright high resolution and high contrast display - making framing and shooting a breeze - even in harsh lighting situations. The three-way tilt-able mechanism can tilt up or down to frame high and low-angle shots or swivel over the camera for framing from multiple angles - all while maintaining center with the lens axis. You can even tilt it up and down when you hold the camera in vertical mode! Finally, the monitor folds flush with the LCD facing the camera to protect it during travel.

## **Compatible with professional microphone systems.**

In addition to the standard headphone and microphone jack, the  $\alpha$ 99 II has a MI (Multi interface) shoe that is compatible with Sony's optional XLR Adaptor Microphone Kits (XLR-K1M and XLR-K2M), allowing you to use professional XLR microphone systems for balanced audio during recording. Furthermore, audio captured using the XAVC S codec or uncompressed HDMI output will be in uncompressed linear PCM for the highest audio quality.

## **Flicker-free shooting<sup>14</sup>**

Flicker from fluorescent and other artificial lighting can affect an image exposure and color anomalies at the top and bottom of an image, especially high shutter speeds<sup>14</sup>. When capturing still images, the camera can automatically detect flicker and time the shutter accordingly to minimize its effect. This maintains consistency of exposure and color from shot to shot in resulting images.

## **GPS location data via Bluetooth<sup>8</sup>**

The  $\alpha$ 99 II offers location data acquisition via a Bluetooth connection to a compatible mobile device with PlayMemories Mobile App installed<sup>8</sup>. The acquired location data from the mobile device can also be used to correct the camera's date, time and location settings. The PlayMemories Home application can then be used on a PC or Mac to organize imported images on a map.

## **Dual media card slots**

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The  $\alpha$ 99 II employs dual media slots. One of the slots supports SD Cards and the other supports both SD Cards and Memory Stick<sup>®</sup> media. This dual slot system allows for simultaneous recording for backup purposes (with recordings sorted RAW/JPEG file type or still/movie data) as well as copying between media. Moreover it allows movie recording to two media cards simultaneously.

## Specifications

Camera	
Lens Compatibility	Sony A-mount lenses, operation with Minolta/Konica Minolta lenses confirmed
Lens Mount	Sony A-mount
Camera Type	Interchangeable lens digital camera
Imaging Sensor	
Imaging Sensor	Exmor R CMOS sensor, 35mm full frame (35.9 x 24.0mm)
Anti Dust	Anti-Dust function: Yes Anti-Dust system: Yes Anti-Dust operation (auto): Cleaning Mode
Pixel Gross	Approx. 43.6 megapixels
Effective Picture Resolution	Approx. 42.4 megapixels
Color Filter System	RGB primary color filters
Recording	
Media Type	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
Color Space	sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with TRILUMINOS Color
Still Image Mode	JPEG (Standard, Fine, Extra Fine), RAW, RAW+JPEG
Still Image Size 16:9	35mm full frame:br/>L: 7952 x 4472 (36M),br/>M: 5168 x 2912 (15M),br/>S: 3984 x 2240 (8.9M)br/>APS-C:br/>L: 5168 x 2912 (15M),br/>M: 3984 x 2240 (8.9M),br/>S: 2592 x 1456 (3.8M)
Still Image Size 3:2	35mm full frame:br/>L: 7952 x 5304 (42M)br/>M: 5168 x 3448 (18M),br/>S: 3984 x 2656 (11M)br/>APS-C:br/>L: 5168 x 3448 (18M),br/>M: 3984 x 2656 (11M),br/>S: 2592 x 1728 (4.5M)
Panorama Still Image Size	Horizontal Wide: 12,416 x 1,856 (23M) Horizontal Std.: 8,192 x 1,856 (15M) Vertical Wide: 5,536 x 2,160 (12M) Vertical Std.: 3,872 x 2,160 (8.4M)
Video Format	XAVC S/ AVCHD format Ver. 2.0 compliant/ MP4

Video Mode	<p>XAVC S 4K:            3840 x 2160 / 30p@100Mbps            3840 x 2160 / 25p@100Mbps            3840 x 2160 / 24p@100Mbps            3840 x 2160 / 30p@60Mbps            3840 x 2160 / 25p@60Mbps            3840 x 2160 / 24p@60Mbps</p> <p>XAVC S HD:            1920 x 1080 / 120p@100Mbps            1920 x 1080 / 100p@100Mbps            1920 x 1080 / 120p@60Mbps            1920 x 1080 / 100p@60Mbps            1920 x 1080 / 60p@50Mbps            1920 x 1080 / 50p@50Mbps            1920 x 1080 / 30p@50Mbps            1920 x 1080 / 25p@50Mbps            1920 x 1080 / 24p@50Mbps</p>
Video Resolution	<p>AVCHD:            PS - 1920 x 1080 / 60p @Maximum bit-rate 28Mbps            PS - 1920 x 1080 / 50p @Maximum bit-rate 28Mbps            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            FX - 1920 x 1080 / 24p @ Maximum bit-rate 24Mbps            FX - 1920 x 1080 / 25p @ Maximum bit-rate 24Mbps            FH - 1920 x 1080 / 24p @Average bit-rat 17Mbps            FH - 1920 x 1080 / 25p @Average bit-rate 17Mbps</p> <p>AVC MP4:            1920 x 1080 / 60p @ 28Mbps            1920 x 1080 / 50p@ 28Mbps            1920 x 1080 / 30p @ 6Mbps            1920 x 1080 / 25p @ 16Mbps            1280 x 720 / 30p @ 6Mbps            1280 x 720 / 25p@ 6Mbps</p>
Audio Format	<p>XAVC S: LPCM 2ch            AVCHD: Dolby Digital (AC-3) 2ch, Dolby Digital Stereo Creator            MP4: MPEG-4 AAC-LC 2ch</p>
Microphone/Speaker	<p>Built-in stereo microphone or XLR-K2M/XLR-K1M/ECM-XYST1M (sold separately)            Built-in, monaural</p>
Still Image File Format	<p>JPEG (DCF Ver. 2.0, Exif Ver.2.31, MPF Baseline compliant), RAW (Sony ARW 2.3 format)</p>
<b>Optics/Lens</b>	
Digital Zoom	<p>Smart zoom (Still images):            35mm full frame: M: Approx. 1.5x, S: Approx. 2x            APS-C: M: Approx. 1.3x, S: Approx. 2x            Digital zoom (Still images):            35mm full frame: L: Approx. 4x, M: Approx. 6.2x, S: Approx. 8x            APS-C: L: Approx. 4x, M: Approx. 5.2x, S: Approx. 8x            Digital zoom (Movie):            35mm full frame: Approx. 4x            APS-C: Approx. 4x</p>
<b>Clear Image Zoom</b>	
Still images	<p>35mm full frame: L: approx 2x, M: approx 3.1x, S: approx 4x            APS-C: L: approx 2x, M: approx 2.6x, S: approx 4x</p>
<b>LCD Display</b>	
LCD Type	<p>3.0" TFT LCD (1,228,800 dots)</p>
Angle Adjustment	<p>Tilt angle:134 degrees; Upward and 180 degrees downward.            Rotation angle:180 degrees clockwise and 90 degrees counterclockwise.</p>

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Brightness Control	Auto, Manual (5 steps between -2 and +2), Sunny Weather
Real-time image adjustment display	Yes (On/Off)
Peaking	Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)
Grid Display	Yes (Rule of 3rds Grid/Square Grid/Diag. + Square Grid/Off)
Customization	Graphic Display, Display All Info, No Disp. Info, Digital level gauge, Histogram, Shooting information for viewfinder mode
Zebra	Yes (selectable level + range or lower limit as custom setting)
<b>LCD panel</b>	
Top panel	Yes
<b>Lens compensation</b>	
Lens compensation	Peripheral Shading, Chromatic Aberration, Distortion
<b>Display</b>	
Focus Check	Yes (35mm full frame: 7.8x, 15.5x APS-C: 5.1x, 10.1x)
<b>LCD Screen</b>	
Quick Navi	Yes
WhiteMagic	Yes
<b>Focus Control</b>	
Focus System	TTL phase detection AF (CCD line sensors, Focal Plane Detection sensors)
Focus Points	79 points (15 cross-type points, F2.8 sensitive at the center point) 399 points (323 selectable points, 79 hybrid-cross auto focus points*) * When Hybrid Phase Detection AF is activated
AF Modes	Single-shot AF (AF-S), Continuous AF (AF-C), Automatic AF (AF-A), Direct Manual Focus selectable
Focus Area	Wide/Zone/Center/Flexible Spot/Expanded Flexible Spot/Lock-On AF (Wide/Zone/Center/Flexible Spot/Expanded Flexible Spot)
Focus Sensitivity	EV -4 to 18 (at ISO 100 equivalent, with F2.8 lens attached)
Focus Features	Eye-start AF, Lock-on AF, Eye AF, Predictive control (AF-A, AF-C), Focus lock, AF On, Eye-start AF
<b>Exposure System</b>	
Metering	1200-zone evaluative metering, Exmor R CMOS sensor
Metering Modes	Multi-segment, Center-weighted, Spot, Standard/Large (Focus Point Link/Center), Entire Screen Avg., Highlight
Metering Sensitivity	EV-2 to EV17 (at ISO100 equivalent with F1.4 lens attached)
Exposure Compensation	+/-5.0 EV (1/3EV, 1/2EV steps selectable)
Exposure Settings	AUTO(iAuto), Programmed AE (P), Aperture priority (A), Shutter-speed priority (S), Manual (M), Memory recall (MR1/2/3), Sweep Panorama, Movie / Slow & Quick Motion (Programmed AE (P), Aperture priority (A) / Shutter-speed priority (S) / Manual (M) selectable)
Picture Effect(s)	8 modes: Toy Camera (Normal/Cool/Warm/Green/Magenta), Pop Color, Posterization (B/W, Color), Retro Photo, Soft High-key, Partial Color (R,G,B,Y), High Contrast Monochrome, Rich-tone Monochrome
D-Range Optimizer	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))
Auto Exposure Lock	Available with AE lock button. AE is also locked when focus is locked in multi-segment metering mode. ("AEL w/ shutter"(Auto/On/Off) is supported)
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))
Exposure 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.

ISO	Stills: ISO 100-25600 ISO numbers up from ISO 50 to ISO 102400 can be set as expanded ISO range, Still Auto: ISO 100-6400 selectable lower limit and upper limit, Movies: ISO 100-25600 equivalent, Movie Auto: ISO 100-6400 selectable lower limit and upper limit
Noise Reduction	Long exposure NR: On/Off, available at shutter speeds longer than 1 sec. High ISO NR: Normal/Low/Off
White Balance Mode	Auto / Daylight/ Shade/ Cloudy/ Incandescent/ Fluorescent Warm White / Cool White / Day White / Daylight/ Flash / Color temperature 2500 to 9900K, color filter/ Custom 1/2/3/Custom Set / Underwater
<b>Drive System</b>	
Burst Buffer	Continuous shooting: Hi+ : -Extra fine: 60 images -Fine: 63 images -Standard: 64 images -RAW & JPEG: 54 images -RAW: 54 images -RAW(Uncompressed) & JPEG: 24 images -RAW(Uncompressed): 25 images  Continuous shooting: Hi : -Extra fine: 65 images -Fine: 71 images -Standard: 74 images -RAW & JPEG: 56 images -RAW: 57 images -RAW(Uncompressed) & JPEG: 25 images -RAW(Uncompressed): 26 images
Continuous Shooting Speed	Continuous shooting: Hi+: 12 fps, Hi: 8 fps, Mid: 6 fps, Lo: 4 fps
Drive Mode	Single Shot, Continuous shooting (Hi or Lo selectable), Self-timer (10 or 2 sec delay selectable), Self-timer (Cont.) (with 10 sec delay 3 or 5 exposures selectable), Bracket: Cont. Bracket: Single, White Balance bracket, DRO bracket
<b>Flash</b>	
Flash Compensation	+/- 3.0 EV (switchable between 1/3 and 1/2 EV steps)
External flash	Sony $\alpha$ System Flash compatible with Multi Interface Shoe, attach the shoe adaptor (ADP-MAA, sold separately) for flash compatible with Auto-lock accessory shoe, Compatible with Sony Radio-controlled Lighting System
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 Metering System	ADI/ Pre-flash TTL
Flash Modes	Flash off, Autoflash, Fill-flash, Slow Sync., Red-eye reduction (on/off selectable), Rear Sync., Hi-speed sync.*, Wireless* *With compatible external flash
<b>Face detection</b>	
Face registration	Yes
Face selection	Yes
Max. number of detectable faces	8
Modes	On/On (Regist. Faces)/Off
<b>Interface</b>	
Microphone Input	Yes (3.5 mm Stereo mini jack)
Remote Commander	Yes; Wi-fi, Infrared)
DC IN	Yes
HD Output	HDMI micro connector (Type-D) BRAVIA Sync(Control for HDMI), PhotoTV HD 4K movie output/4K still image PB
NFC	Yes (One-touch remote, One-touch sharing)
USB Port(s)	Multi / Micro USB Terminal



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Wi-Fi	Yes (Wi-Fi Compatible, IEEE 802.11b/g/n(2.4GHz band) )
Multi Interface Shoe	Yes* *Sony accessories for the Accessory Shoe can be attached.
<b>Sync. Terminal</b>	
Sync. Terminal	Yes
<b>Weights and Measurements</b>	
Dimensions (Approx.)	5 5/8 x 4 1/8 x 3 inches (142.6 x 104.2 x 76.1 mm)
Weight (Approx.)	Body only: 1 lb 11.2 oz (770 g) With battery and Memory Stick PRO Duo included: 1 lb 13.9 oz (849 g)
<b>Power</b>	
Battery Type	One rechargeable battery pack NP-FM500H
Number of Still Images	Approx. 390 shots (Viewfinder) / approx. 490 shots (LCD monitor) (CIPA standard)
External Power	AC Adaptor AC-PW10AM (sold separately)
Power Consumption (in View Finder Operation)	Still images: approx. 3.6W (with 28-75mm F2.8 SAM lens attached), Movies: approx. 5.2 W (with 28-75mm F2.8 SAM lens attached) With LCD Screen: Still images: approx. 2.9W (with 28-75mm F2.8 SAM lens attached), Movies: approx. 5.2 W (with 28-75mm F2.8 SAM lens attached)
<b>Print</b>	
Compatible standards	Exif Print, Print Image Matching III, DPOF setting
AF Tracking Duration	Yes
Audio Level Display	Yes
Audio Rec Level	Yes
Auto Slow Shutter	Yes
<b>Other Features</b>	
Area Setting	Yes
Clock Function,Setting	Yes
Eye-Fi ready	Yes
Help guide	Yes
Shop Front Mode	Yes
<b>Playback</b>	
Modes	Single (with or without shooting information Y RGB histogram & highlight/shadow warning) 9/25-frame index view Enlarged display mode (L: 24.9x, M: 16.2x, S: 12.5x, Panorama (Standard): 25.6x, Panorama (Wide): 38.8x) Auto Review (10/5/2 sec,Off) Image orientation (Auto/Manual/Off selectable) Slideshow Panorama scrolling Folder selection (Date/ Still/ MP4/ AVCHD/XAVC S HD/XAVC S 4K) Forward/Rewind (movie) Delete Protect
<b>Recording format (movie)</b>	
Delete	Yes
Video compression	XAVC S: MPEG-4 AVC / H.264 AVCHD: MPEG-4 AVC / H.264 MP4: MPEG-4 AVC / H.264
<b>Recording format (still image)</b>	
14bit RAW	Yes
<b>SteadyShot INSIDE (image stabilization)</b>	
Type	Image Sensor-Shift mechanism with 5-axis compensation
Compensation effect	4.5 steps (based on CIPA standard. Pitch/yaw shake only. With SAL 135F18Z lens mounted. Long exposure NR off.)



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Shutter	
Flash sync. speed	1/250 sec.
Shutter speed	PAL mode: Still images:1/8000 to 30 sec, Bulb, Movies: 1/8000 to 1/4(1/3 steps) up to 1/50 in AUTO mode (up to 1/25 in Auto slow shutter mode), NTSC mode: Still images:1/8000 to 30 sec, Bulb, Movies: 1/8000 to 1/4(1/3 steps) up to 1/60 in AUTO mode (up to 1/30 in Auto slow shutter mode)
Type	Electronically-controlled, vertical-traverse, focal-plane type
Electronic Front Shutter Curtain	Yes (On/Off)
Smart Teleconverter	
Smart Teleconverter	Yes (approx. 1.4 x / 2x)
Viewfinder	
Type	1.3 cm (0.5 type) electronic viewfinder
Diopter Adjustment	-4.0 to +3.0m <sup>-1</sup>
Field of View	100%
Magnification	Approx. 0.78 x (with 50mm lens at infinity, -1m <sup>-1</sup> )
Brightness Control	Auto/Manual (5 steps between -2 and +2)
Color temperature control	Manual (5 steps)
Display	Graphic Display / Display All Info./ No Disp. Info. / Digital level gauge / Histogram
Eye point	Approx. 23mm from the eyepiece lens, 18.5mm from the eyepiece frame at -1m <sup>-1</sup> (CIPA standard)
Number of dots	2 359 296 dots
White balance	
AWB micro adjustment	Yes
Bracketing	3 frames, H/L selectable
Wi-Fi	
Send to Computer	Yes
View on Smartphone	Yes
View on TV	Yes
Accessories	
Supplied Accessories	Rechargeable Battery (NP-FM500H) Battery Charger BC-VM10A Shoulder strap Body cap Accessory shoe cap Eyepiece cup Micro USB cable



1. Continuous shooting mode set to 'Hi+'
2. The supported focus area will depend on the shooting mode and lens used. Furthermore, when "Continuous Shooting: Hi+" is selected, focus will be fixed at the first frame shot when Hybrid Phase Detection AF is active at aperture settings of F9 or higher, or when Hybrid Phase Detection AF is not active at aperture settings of F4 or higher
3. The number of usable AF points may depend on the lens and shooting mode. Up to 323 focus points are selectable. Not available for movie recording.
4. ISO range of 100-25600, expandable to ISO 50 – 102,400. Expanded ISO. Still images only.
5. Class 10 or higher SDHC/SDXC memory card required for XAVC S format movie recording. UHS-I (U3) SDHC/SDXC card required for 100Mbps recording.
6. Sound cannot be recorded during S&Q. SDHC/SDXC memory card of Class 10 or higher is required. Full HD up to 50 Mbps; 60x quick motion/5x slow in NTSC and 50x quick motion/4x slow in PAL.
7. The number of usable AF points may depend on the lens and shooting mode
8. Requires pairing with compatible Android or iOS mobile devices running the free PlayMemories Mobile app. For GPS pairing, Android 5.0 or later and compatible with Bluetooth 4.0 or later. iPhone/iPad: iPhone 4S or later/iPad 3rd generation or later is required.
9. Not guaranteed to be 100% dust and moisture proof
10. Full pixel readout in both full-frame and super 35mm. No pixel binning in Super 35mm recording.
11. Among digital cameras with a full-frame sensor. As of press release date, based upon Sony research.
12. Central focus point
13. CIPA standards. Pitch/yaw shake only. SAL135F18Z lens. Long exposure NR off.
14. When Anti-flicker Shoot.is ON. Flicker detection at 100 Hz or 120 Hz only. Continuous shooting speed may decrease. Does not function during bulb exposure or movie recording.

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