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ILCE-7RM3/B

α7R III Full-frame Mirrorless Interchangeable-Lens Camera

Thanks to an evolutionary leap in image processing power and efficiency, the a7R III combines a high-resolution 42.4 MP back-illuminated Exmor R® CMOS image sensor with impressive shooting speeds at up to 10 fps[1] with full AF/AE tracking, as well as beautiful 4K[2] HDR[3] video quality, wide 15-stop[4] dynamic range and high sensitivity with noise reduction of almost a full stop[4].

Key Features

Spectacular 42.4MP full-frame resolution

The 42.4MP high-resolution, back-illuminated Exmor R® CMOS sensor utilizes a gapless on-chip lens design and AR (anti-reflective) coating on the surface of the sensor's seal glass to dramatically improve light collection efficiency. This results in high sensitivity with low-noise performance and wide 15-stop[4] dynamic range. No optical low pass filter maximizes resolution, while also having the ability to output 14 bit RAW[15] format even when shooting in silent or continuous mode. Nothing less than spectacular images.

Evolutionary leap in image processing power

The a7R III features a new front-end LSI that effectively doubles* the readout speed of the image sensor, as well as an updated BIONZ X™ processing-engine that boosts processing speed by approximately 1.8 times compared to the a7R II. These powerful components work together to allow the camera to shoot at faster speeds while also enabling its impressive ISO range of 100 - 32000 (expandable to ISO 50 – 102400 for still images) and massive 15-stop[4] dynamic range at low sensitivity settings. This ensures outstanding overall performance at all settings and in all shooting conditions.

Up to 10fps[1] with Silent or Mechanical Shutter

The a7R III is equipped with a refined image processing system that allows it to capture full 42.4MP images at up to 10 fps[1] with continuous and accurate AF/AE (autofocus and auto exposure) tracking for up to 76 JPEG / RAW images or 28 uncompressed RAW images[11]. This high speed 10 fps mode is available with either a mechanical shutter or an electronic shutter for completely silent shooting, adding to the immense flexibility of the camera. The a7R III can also shoot continuously at up to 8 fps[1] in live view mode with minimal lag in the viewfinder or LCD screen. These high speed options ensure that fast moving subjects can be captured with extreme accuracy and incredible image detail.

Incredible hybrid autofocus system

The upgraded focusing system of the a7R III is comprised of 399 focal-plane phase-detection AF points that cover approximately 47% of the image area in both the horizontal and vertical directions and 425 contrast AF points which cover approximately 68% of the image area (an increase of 400 points compared to the a7R II). When combined, both contrast and phase detection AF points form the hybrid AF system for wide, fast, reliable AF that locks on and stays locked on. This advanced system delivers AF acquisition in about half the time as the a7R II in low-light conditions with tracking that is approximately 2 times more accurate as well. The acclaimed Eye AF feature is also approximately twice as effective[4], and is available when utilizing Sony's A-mount lenses with an adapter[12].

5.5-step[7], 5-axis in-body image stabilization

The 5-axis in-body SteadyShot™ image stabilization system has been fine-tuned to support high-resolution shooting capacity, resulting in the world's highest[10] compensation performance for an image stabilization system at 5.5 step[7] shutter speed advantage. Camera shake is effectively compensated on 5 axes: pitch and yaw that have the largest overall impact on image quality; X and Y shift that is most apparent at high magnification, and roll that can ruin night shots and movies. Stabilization is applied to the live-view image, making it easier to frame fast-moving subjects. Effective stabilization is provided for movies as well as stills, and for A-mount lenses attached via a mount adapter[12].

Low-vibration high-reliability shutter

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Thanks to a new shutter unit with a fast-response coreless motor and a brake system, front and rear curtain mechanical shutter vibrations that can cause blur, is subdued to a minimum, while allowing high-speed continuous shooting at up to 10 frames per second. The shutter is also quiet, and has been tested for durability in excess of 500,000 shutter cycles[4]. Low-vibration high-reliability shutter helps to maximize 42.4 effective megapixel performance and enables 10 frame per second shooting with high speed studio strobes.

Pixel Shift Multi Shooting[8]

In a "normal" digital capture each pixel represents just one color: red, green, or blue. The surrounding pixels are used to supply the necessary extra information required to interpolate and reproduce the remaining two primary colors. Pixel Shift Multi Shooting[8] takes advantage of the advanced in-body image stabilization system. It precisely shifts the sensor in 1-pixel increments to capture four pixel-shifted images containing a total of approximately 169.6 million pixels8 that are later composited using supplied software running on a personal computer to achieve overwhelming subjective resolution in a single 42.4MP image. Still images of subjects such as architecture and art are captured with true-to-life details, texture, and color.

Secure and versatile dual SD media slots

Two SD media card slots are provided for still and movie storage (one slot for SD cards or Memory Stick) with the lower card slot being UHS-II compatible for fast write speed. Still or movie data can be simultaneously recorded to both cards for backup, or RAW images can be recorded to one card while JPEG images are recorded to the other. It is also possible to record stills and movies to different cards. Data can be copied between cards while in the camera, for convenient back-up. Sony SF-G series UHS-II SD cards are ideal for situations where maximum transfer speed is required.

High Quality 4K[2] HDR[3] for the Video Professionals

The a7R III is exceptionally capable as a video camera, offering 4K[2] (3840x2160 pixels) video recording across the full width of the full-frame image sensor. When shooting in Super 35mm format, the camera uses full pixel readout without pixel binning to collect 5K (15-megapixels) of information, oversampling it to produce high quality 4K footage with exceptional detail and depth. Both S-Log2 and S-Log3 are available for increased color grading flexibility, while HLG (Hybrid Log-Gamma)[3] is included to support an Instant HDR (High Dynamic Range) workflow, allowing HDR (HLG) compatible TV's to playback beautiful, true-to-life 4K HDR imagery. The a7R III can also record Full HD at 120 fps at up to 100 Mbps*, allowing footage to be reviewed and eventually edited into 4x or 5x slow motion[13] video files in Full HD resolution.

The detail of 4K[2], the beauty of HDR[3]

4K[2] HDR[3] (High Dynamic Range) astonishes viewers with visual depth and impact that are less like conventional movies and television – and more like real life. With the ability to reproduce images from deep shadows to piercing highlights, 4K High Dynamic Range (HDR) is astonishing. With Instant HDR, a first in palm-sized cameras, the a7R III empowers you to capture High Dynamic Range without complex post production. Hybrid Log-Gamma (HLG) recording captures HDR, yet plays back beautifully on both HDR and conventional televisions. For added versatility, the camera also provides S-Log3 encoding.

16-bit processing and 14-bit RAW[15] output for natural gradations

Both compressed and uncompressed 14-bit RAW[15] format are supported. The 14-bit digital signal from the image sensor's analogue to digital (AD) converter is processed in 16-bit form by the front-end LSI and BIONZ X™ image processor before being output as 14-bit RAW data. The result is smoother, more natural gradations that contribute to higher overall image quality. The enhanced BIONZ X image processing LSI makes 14-bit RAW output available even when shooting in silent or continuous mode[15].

Simple connectivity to smartphones via Wi-Fi®/NFC.

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Thanks to built-in Wi-Fi®, you can easily connect to a compatible iOS or Android™ smartphone or tablet with the free PlayMemories Mobile App. From there you can control your camera, preview and frame using your mobile device and trigger the camera shutter or movie button. Then instantly transfer a photo or MP4 movie to your device. FTP file transfer via Wi-Fi allows convenient Wi-Fi transfer of still image files selected via the menu display to a specified remote FTP server. FTPS (File Transfer Protocol over SSL/TLS) is supported, allowing SSL or TLS data encryption for maximum security. NFC™ (Near Field Communication) provides "one-touch connection" convenience to Android™ smartphones and tablets with NFC. Simply touch devices to connect. Setting up your mobile device is as simple as downloading a free PlayMemories Mobile app (www.sony.net/pmm/).

Quad-VGA OLED Tru-Finder with 120 fps* refresh rate

The a7R III boasts a high-luminance 3,69K-dot Quad-VGA OLED Tru-Finder which reproduces the finest details, and incorporates legendary ZEISS T* coating to greatly reduces reflections, while the double-sided aspherical element achieves 0.78x magnification with outstanding corner-to-corner clarity. A menu setting allows viewfinder and monitor display quality to be set to "STD" or "Hi". The "Hi" mode takes advantage of the large amount of data read from the 42.4 effective megapixel sensor to provide extra fine viewfinder and monitor displays with minimal moiré and jaggies, providing finer detail and a more natural overall view while shooting. It also has a customizable frame rate, with options of either 60 fps or 120 fps14 to best match the action. There's even a fluorine coating on the outermost viewfinder lens that repels fingerprints, dust, water, oil, and dirt.

3-inch 1,440K-dot tiltable LCD screen with touch AF

The tiltable 3-inch (1,440k dots) Xtra Fine LCD™ Display makes it easy to photograph over crowds, or objects close to the ground or maybe you just want to get a different perspective. The screen can swivel up approx. 107° and down approx. 41° and features a convenient touch AF function for fast intuitive focus. The large display delivers brilliant-quality still images and movies thanks to WhiteMagic™ technology that nearly doubles the brightness of the display through a unique RGBW pixel structure for easier checking of the focus and image details.

Touch AF function

Focusing doesn't get any more intuitive than this. With Touch Focus you can simply touch the LCD screen to specify the desired focus point. Even subjects near the edges of the frame can be instantly selected without having to reframe or manually shift the focus point. Double-tap any point on the monitor for a magnified view of that area when focusing manually. Touch AF allows smooth focus point changes when shooting movies too.

Enhanced Eye-AF

Eye AF automatically detects and focuses on the subject's eye. It has been notably improved in the a7R III, providing approximately twice as effective compared to the a7R II, even when shooting a moving subject in continuous AF mode. Face detection has also been updated for higher reliability when the subject is looking away from the camera, when the face is in partial darkness, and other challenging situations.

Fast focus with A-mount lenses[12]

The focal plane phase-detection AF system does its job even when an SSM or SAM A-mount lens is mounted via the optional LA-EA3 mount adaptor[12]. 399-point focal plane phase-detection AF provides wide-area coverage and fast response for A-mount lenses as well as E-mount types, offering high tracking performance for an extensive lineup of lenses.

Long-lasting Z battery

The high-capacity NP-FZ100 Rechargeable Battery has approximately 2.2x the capacity of the NP-FW50 W-series battery for more than double the stamina of the W series as used in the a7R II. The optional VG-C3EM vertical grip houses two batteries and when you need serious stamina for long sessions there's the NPA-MQZ1K Multi Battery Adaptor Kit that can hold up to four batteries. The NP-FZ100 also supports InfoLITHIUM® technology, which makes it possible to view the remaining battery power as both a percentage display and five step icon on the camera's LCD screen.

Robust magnesium alloy body w/ dust and moisture resistant design[9]

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The a7R III body construction features a lightweight, high-rigidity magnesium alloy for the internal frame as well as the top, front, and rear covers. The grip area has also been reinforced with an integrated magnesium alloy grip and front cover. The number of screws securing the lens mount has been increased to six in order to maximize rigidity and durability even when using heavy telephoto lenses. Sealing is provided throughout the body to minimize dust and moisture ingress, allowing it to function reliably in challenging environments9. All major buttons and dials are provided with seals, while media and jack covers and enclosure edges feature tongue-and-groove joints for double protection. Maximum dust and moisture resistance is maintained at lens, vertical grip, and flash unit joints too, providing excellent system reliability.

Rating and protect functions

Rating and protect functions facilitate on-location sorting
Star ratings (1 to 5 stars) can be applied to still images right from the camera controls. The same ratings are maintained when the images are imported into PlayMemories Home or Imaging Edge software running on a PC. The rating function can be assigned to a custom button so that ratings can be applied via the review playback display. There is also a protect function that can prevent accidental erasure of images. The protect function can be assigned to a custom button (C3 is the default) so that images can be quickly protected during review. Ratings and protection can be applied via the review playback display on location or while traveling to save time.

My Menu, customizable interface and buttons, plus back focus button

Make it your own with easy button customization. A new My Menu feature allows up to 30 menu items to be registered for instant recall when needed. The registered items can be arranged in any convenient order, and unused items can be erased as required. The primary menus have also been reorganized for smoother search and operation. In addition, You can assign any of 72 functions to any of 11 customizable buttons as you like. This makes operation more intuitive, quick and easy, and is extra-convenient for accessing such functions as starting and stopping of movie recording and switching between viewfinder and monitor.

AF-ON button (back focus button)

The a7R III has several new and updated focus functions that support faster, easier focusing in a variety of situations including the AF-ON button (back focus button) which activates autofocus when pressed while shooting stills or movies.

AF Multi-selector

The camera features a multi-selector joystick on the back of the camera, allowing shooters to easily shift focus within the frame by pressing the multi-selector in any direction up, down, left or right when shooting in Zone, Flexible Spot or Expanded Flexible Spot focus area modes.

Anti-dust system and coating

To keep your photos blemish-free, a special anti-static coating on the surface of the optical filter suppresses the attachment of both dry and moist dust particles when changing lenses. An anti-dust mechanism also vibrates at high speed when you select Cleaning Mode, to remove any particles adhering to the filter.

Meticulously crafted controls

Controls are refined for intuitive operation and immediate adjustment even while looking through the viewfinder. The α9 features front and rear dials for easier, more efficient handling and turning. A mode dial locking mechanism prevents inadvertent changes of shooting mode at all times and a stacked independently operable dials allow fast selection of drive and focus modes. Quickly select the single or continuous drive mode, or the single AF or continuous AF focus mode, for example, without having to scroll through menus. Both dials are lockable, preventing unwanted mode changes during use.

Improved flash compatibility and flash Sync terminal

There is a sync terminal enabling external flash units and cables to be connected directly for convenient flash sync. What's more, release time lag has been minimized for smooth, responsive flash photography. Continuous flash shooting at up to 10 fps[1]25 offers advanced capture capability. Slow sync and rear curtain sync*26 can be selected when shooting with wireless off-camera flash for even further enhanced versatility.

Anti-flicker[16] function

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If there is fluorescent or artificial lighting present in a shooting environment, users can activate the Anti-flicker[16] function to allow the a7R III to automatically detect frequency of the lighting and time the shutter to minimize its effect on images being captured. This minimizes any exposure or color anomalies that can sometimes occur at the top and bottom of images shot at high shutter speeds

Specifications

Camera	
Camera Type	Interchangeable lens digital camera
Lens Compatibility	Sony E-mount lenses
Lens Mount Type	E-mount
Recording	
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
Viewfinder	
Diopter Adjustment	-4.0 to +3.0m^{-1}
Magnification	Approx. 0.78 x (with 50mm lens at infinity, -1m^{-1})
Type	0.5 type (1.3 cm) electronic viewfinder (color)
LCD Display	
Angle Adjustment	Up by approx. 107 degrees, Down by approx. 41 degrees
Brightness Control	Manual (5 steps between -2 and +2), Sunny Weather mode
Customization	Graphic Display, Display All Info, No Disp. Info, Digital Level, Gauge, Histgram, For viewfinder, Monitor Off
Grid Display	Yes (Rule of 3rds Grid/Square Grid/Diag. + Square Grid/Off)
Peaking	Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)
Real-time image adjustment display	On/Off
Zebra	Yes (selectable level + range or lower limit as custom setting)
Drive System	
Continuous Shooting Speed	Continuous shooting: Hi+: max. 10 fps, Hi: max. 8 fps, Mid: max. 6fps, Lo: max. 3 fps
Drive Mode	Single Shooting, Continuous shooting (Hi/Lo selectable), Self-timer, Self-timer (Cont.), Bracket: Single, Bracket:Cont., White Balance bracket, DRO bracket

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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
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 * , Hi-speed sync. * *With compatible external flash
Advanced Features	
Face Detection	Face Priority inAF(On/Off), Face Priority in Multi Metering(On/Off), Regist. Faces Priority(On/Off) Max. number of detectable: 8
Interface	
HD Output	HDMI micro connector (Type-D) BRAVIA Sync(Control for HDMI) PhotoTV HD 4K movie output/4K still image PB
Headphone Jack	Yes(3.5 mm Stereo minijack)
Microphone Input	Yes (3.5 mm Stereo minijack)
NFC	Yes (NFC forum Type 3 Tag compatible)
Remote Commander	Yes(RMT-DSLR2 (sold separately))
Wi-Fi	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.)	5 x 3 7/8 x 3 inches (126.9 x 95.6 x 73.7mm) 5 x 3 7/8 x 2 1/2 inches (126.9 x 95.6 x 62.7mm (From grip to monitor)
Weight (Approx.)	With battery and Memory card included: 1lb 7.2 oz (approx.657g)
Weight(Approx) (Main unit only)	1lb 4.2 oz (572g)
Power	
Battery Type	One rechargeable battery pack NP-FZ100
Number of Still Images	Approx. 530 shots (Viewfinder) / approx. 650 shots (LCD monitor) (CIPA standard) Movies Actual Recording: Approx. 100 min (Viewfinder) / Approx. 115 min (LCD monitor) (CIPA standard) Continuous recording: Approx. 180 min (Viewfinder) / Approx. 190 min (LCD monitor) (CIPA standard)
Power Consumption (in View Finder Operation)	With Viewfinder; Still images: approx. 3.7W(with FE 28-70mm F3.5-5.6 OSS lens attached), Movies: approx. 5.5W(with FE 28-70mm F3.5-5.6 OSS lens attached); Still images: approx. 3.0W(with FE 28-70mm F3.5-5.6 OSS lens attached), Movies: approx. 5.2W(with FE 28-70mm F3.5-5.6 OSS lens attached)
Clear Image Zoom	
Movies	Approx. 1.5x (4K), Approx. 2x (HD)
Still images	Approx. 2x
Drive	
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)
Exposure control	

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AE Lock	Locked when shutter button is pressed halfway. Available with AE lock button. (On/Off/Auto)
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) (with exposure compensation dial : +/- 3EV (1/3 EV steps))
Exposure 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))
ISO sensitivity (Recommended Exposure Index)	AUTO (ISO 100-12800, selectable lower limit and upper limit) Movies: ISO 100-32000 equivalent, AUTO (ISO 100-12800, selectable lower limit and upper limit)
Metering sensitivity	EV-3 to EV20 (at ISO100 equivalent with F2.0 lens attached)
Metering sensor	Exmor R CMOS sensor
Metering type	1200-zone evaluative metering
Modes	Multi-segment, Center-weighted, Spot, Spot Standard/Large, Entire Screen Avg., Highlight
Focus system	
AF illuminator	Yes(with Built-in LED type)
AF illuminator range	Approx. 0.3m - approx. 3.0m (with FE 28-70mm F3.5-5.6 OSS attached)
AF micro adjustment	Yes, (Sold separately) with LA-EA2 or LA-EA4
Eye AF	Yes
Eye-start AF	Yes (only with LA-EA2 or LA-EA4 attached(Sold separately))
Focus area	Wide (399 points (phase-detection AF), 425 points(contrast-detection AF)) / Zone / Center / Flexible Spot (S/M/L) /Expanded Flexible Spot/ Lock-on AF (Wide / Zone / Center / Flexible Spot (S/M/L)/Expanded Flexible Spot)
Focus point	35mm full frame: 399 points (phase-detection AF), APS-C mode with full frame lens: 323 points (phase-detection AF), with APS-C lens: 255 points (phase-detection AF) / 425 points (contrast-detection AF)
Focus sensor	Exmor R CMOS sensor
Lock-on AF	Yes
Other Features	Predictive control, Focus lock, AF Track Sens, Swt.V/H AF Area, AF Area Regist.
Sensitivity range	EV-3 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
AF micro adjustment	Yes, (Sold separately) with LA-EA2 or LA-EA4
Image sensor	
Anti-Dust function	Yes
Anti-Dust operation (auto)	Cleaning Mode
Anti-Dust system	Charge protection coating on optical filter and image sensor shift mechanism
Color filter	R, G, B primary color
Number of pixels (effective)	Approx. 42.4 megapixels
Number of pixels (total)	Approx. 43.6 megapixels
Type	35 mm full frame (35.9×24.0mm), ExmorR CMOS sensor
Interface	
Multi Interface Shoe	Yes
Vertical Grip Connector	Yes
Lens compensation	

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Lens compensation	Peripheral Shading, Chromatic Aberration, Distortion
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(25p) 1920 x 1080(50p) 1920 x 1080(50i) 1920 x 1080(24p) 1920 x 1080(60p) 1920 x 1080(60i) 3840 x 2160(30p) 3840 x 2160(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)
Other Features	
Area Setting	Yes
Clock Function,Setting	Yes
Help guide	Yes
Shop Front Mode	Yes
Playback	
Modes	Single (with or without shooting information Y RGB histogram & highlight/shadow warning) 9/25-frame index view Enlarged display mode (L: 19.9x, M: 12.9x, S: 10.0x) 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 Disp Cont Shoot Grp
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/II compliant) / SDXC memory card (UHS-I/II compliant) / microSD memory card / microSDHC memory card / microSDXC memory card
Memory Card Slot	SLOT1:Slot for SD(UHS-I/II compliant) memory card SLOT2:Multi slot for Memory Stick Duo/SD(UHS-I compliant) memory card
Recording mode on 2 memory cards	Simult. Rec (Still), Simult. Rec (Movie), Simult. Rec (Still/ Movie), Sort (JPEG/RAW), Sort (Still/Movie), Auto Switch Media (On/Off), Copy
Recording system (movie)	
Audio recording format	XAVC S:LPCM 2ch AVCHD: Dolby Digital (AC-3) 2ch, Dolby Digital Stereo Creator
Color space	xvYCC standard (x.v.Color when connected via HDMI cable) compatible with TRILUMINOS Color

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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)	
Color space	sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with TRILUMINOS Color
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))
Delete	Yes
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))
Image quality modes	RAW RAW & JPEG (Extra fine, Fine, Standard) JPEG (Extra fine, Fine, Standard)
Image size (pixels) (16:9)	35mm full frame L: 7952 x 4472 (36M), M: 5168 x 2912 (15M), S: 3984 x 2240 (8.9M) APS-C L: 5168 x 2912 (15M), M: 3984 x 2240 (8.9M), S: 2592 x 1456 (3.8M)
Image size (pixels) (3:2)	35mm full frame L: 7952 x 5304 (42M), M: 5168 x 3448 (18M), S: 3984 x 2656 (11M) APS-C L: 5168 x 3448 (18M), M: 3984 x 2656 (11M), S: 2592 x 1728 (4.5M)
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
Recording format	JPEG (DCF Ver. 2.0, Exif Ver.2.31, MPF Baseline compliant), RAW (Sony ARW 2.3 format)
Uncompressed RAW	Yes
Shutter	
Electronic Front Curtain Shutter	Yes (On/Off)
Flash sync. speed	1/250 sec.
Shutter speed	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
Viewfinder	
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, 18.5 mm from the eyepiece frame at $-1m^{-1}$(CIPA standard)
Number of dots	3 686 400 dots
Quad-VGA OLED	Yes
Brightness Control	Auto/Manual (5 steps between -2 and +2)
White balance	
AWB micro adjustment	Yes
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/ Custom
Priority Set in AWB	Yes

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Wi-Fi	
Send to Computer	Yes
View on Smartphone	Yes
View on TV	Yes
Accessories	
Supplied Accessories	Power cord Rechargeable Battery NP-FZ100 Cable Protector Battery Charger BC-QZ1 Shoulder strap Body cap Accessory shoe cap Eyepiece cup USB Type-C™ cable

1. Up to 10 fps in continuous "Hi+" mode, and up to 8 fps in continuous "Hi" mode. Maximum fps will depend on camera settings
2. A Class 10 or higher SDHC/SDXC memory card is required for XAVC S format movie recording. UHS speed class 3 or higher is required for 100 Mbps recording
3. Connect this product to an HDR (HLG) compatible Sony TV via a USB cable when displaying HDR (HLG) movies
4. According to Sony test conditions
5. ISO range of 100 - 32000 (expandable to ISO 50 – 102400)
6. In Super 35mm mode.
7. CIPA standards. Pitch/yaw shake only. Planar T* FE 50mm F1.4 ZA lens. Long exposure NR off
8. Requires use of supplied Imaging Edge software application for compositing. Image compositing may not be successful if camera or subject movement causes blur. The use of a tripod is recommended, as is the use of PC tethered control or a remote commander where possible. Uncompressed RAW and silent mode are automatically selected for Pixel Shift Multi shooting. Some restrictions apply to flash and other devices. Image size after compositing is approx. 42.4 million (7952 x 5304) pixels. Refer to the Sony support site for details. http://www.sony.net/psms/
9. Not guaranteed to be 100% dust and moisture proof.
10. Among digital cameras with a full-frame image sensor. As of October 2017 press release, based on Sony research
11. Hi+" continuous mode with UHS-II compatible SDXC memory card. Sony test conditions.
12. With SSM or SAM lenses only. With the LA-EA3 mount adapter. Eye AF not supported for movie recording. AF-C can only be used when the "Phase detection" AF system is selected, but focus is fixed at the first frame during continuous shooting in any mode other than "Continuous: Lo" (Hi+, Hi, Mid).
13. Sound not recorded. Class 10 or higher SDHC/SDXC memory card required
14. In NTSC. 50fps or 100fps in PAL
15. When uncompressed RAW is selected. Limited to 12 bits during compressed RAW continuous shooting, BULB exposure, or when Long Exposure NR is ON.
16. Only 100 Hz and 120 Hz flicker is detected. Continuous shooting speed may decrease. Flicker-free shooting is not available during silent shooting, BULB exposure, or movie recording