

SONY

New Products Information

Interchangeable-lens
Digital Camera



α7R^{III}

The Power of Imaging

BE MOVED



Sony
Overseas
Models

•Sony Corporation
Sony Marketing (Japan) Inc. 1-7-1 Konan Minato-ku, Tokyo, 108-0075 Japan



Safety Cautions

To ensure correct use of this product, read the "Instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Do not use headphones while driving and cycling, etc.

Main specifications of **α7Rm**

General	Camera Type	Interchangeable-lens digital camera
	Lens mount	E-mount
	Type	35mm full frame [35.9x24.0mm], Exmor R CMOS sensor
	Number of Pixels	Approx. 42.4 megapixels (effective), Approx. 43.6 (Total)
	Image sensor Aspect Ratio	3:2
Image sensor	Anti-Dust System	Charge protection coating on optical filter and image sensor shift mechanism
	Recording Format	JPEG (DCF Ver. 2.0, Exif Ver 2.31, MPF Baseline compliant), RAW (Sony ARW 2.3 format)
	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: 2992 x 1728 (4.5M)
	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: 2992 x 1456 (3.8M)
	Image Quality modes	RAW, RAW & JPEG (Extra fine, Fine, Standard), JPEG (Extra fine, Fine, Standard)
	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
	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 Profile	Yes (Off / PP1-PP10) Parameters: Black level, Gamma (Movie, Still, Cine1-4, ITU709, ITU709 [800%], S-Log2, S-Log3, HLG, HLG1-3), Black Gamma, Knee, Color Mode, Saturation, Color Phase, Color Depth, Detail, Copy, Reset
	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))
	Color Space	sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with TRILUMINOS Color
	14bit RAW	Yes
	Uncompressed RAW	Yes
Recording System (movie)	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
	Audio Recording Format	XAVC S: LPCM 2ch, AVCHD: Dolby Digital (AC-3) 2ch, Dolby Digital Stereo Creator
	Color Space	xVCC standard (x.v.Color when connected via HDMI cable) compatible with TRILUMINOS Color
	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
	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 Profile	Yes (Off / PP1-PP10) Parameters: Black level, Gamma (Movie, Still, Cine1-4, ITU709, ITU709 [800%], S-Log2, S-Log3, HLG, HLG1-3), Black Gamma, Knee, Color Mode, Saturation, Color Phase, Color Depth, Detail, Copy, Reset
	Image Size (Pixels), NTSC	XAVC S 4K: 3840 x 2160 (30p, 100M), 3840 x 2160 (24p, 100M), 3840 x 2160 (30p, 60M), 3840 x 2160 (24p, 60M) XAVC S HD: 1920 x 1080 (120p, 100M), 1920 x 1080 (120p, 60M), 1920 x 1080 (60p, 50M), 1920 x 1080 (30p, 50M), 1920 x 1080 (24p, 50M), 1920 x 1080 (60p, 25M), 1920 x 1080 (30p, 16M) AVCHD: 1920 x 1080 (60i, 24M, FX), 1920 x 1080 (60i, 17M, FH)
	Image Size (pixels), PAL	XAVC S 4K: 3840 x 2160 (25p, 100M), 3840 x 2160 (25p, 60M) XAVC S HD: 1920 x 1080 (100p, 100M), 1920 x 1080 (100p, 60M), 1920 x 1080 (50p, 50M), 1920 x 1080 (25p, 50M), 1920 x 1080 (50p, 25M), 1920 x 1080 (25p, 16M) AVCHD: 1920 x 1080 (50i, 24M, FX), 1920 x 1080 (50i, 17M, FH)
	Slow & Quick Motion (S&Q) / Image size	NTSC mode: 1920x1080 (60p, 30p, 24p) PAL mode: 1920x1080 (50p, 25p)
	Slow & Quick Motion (S&Q) / Image frame rate	NTSC mode: 1fps, 2fps, 3fps, 4fps, 8fps, 15fps, 30fps, 60fps, 120fps PAL mode: 1fps, 2fps, 3fps, 4fps, 8fps, 12fps, 25fps, 50fps,100fps
	Movie Functions	Audio Level Display, Audio Rec Level, PAL/NTSC Selector, Proxy Recording (1280 x 720, 9Mbps), TC/UB (TC Preset/UB Preset/TC Format/TC Run/TC Make/UB Time Rec), Auto Slow Shutter, REC Control, Clean HDMI In/Out (On/OFF selectable), Gamma Disp. Assist
	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
Recording System	Location Information Link From Smartphone	Yes
	Media	Memory Stick PRO Duo, Memory Stick PRO-HG Duo, Memory Stick Micro (M2), SD memory card, SDHC memory card (UHS-I/I compliant), SDXC memory card (UHS-I/I compliant), microSD memory card, microSDHC memory card, microSDXC memory card
	Memory Card Slot	SLOT1: Slot for SD (UHS-I/I 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 (JPG/RAW), Sort (Still/Movie), Auto Switch Media (On/Off), Copy
	Noise reduction	Noise Reduction Long exposure NR: On/Off, available at shutter speeds longer than 1 sec. High ISO NR: Normal/Low/Off
White Balance	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
	AWB Micro Adjustment	Yes
	Priority Set in AWB	Yes
	Bracketing	3 frames, H/L selectable
	Focus	Focus Type ^{*1} Fast Hybrid AF (phase-detection AF/contrast-detection AF) Focus Sensor Exmor R CMOS sensor Focus Point 35mm full frame: 399 points (phase-detection AF), APS-C mode with FE lens: 323 points (phase-detection AF), with APS-C lens: 255 points (phase-detection AF) / 425 points (contrast-detection AF) Focus Sensitivity Range EV-3 to EV20 (ISO100 equivalent with F2.0 lens attached) Focus Mode AF-A (Automatic AF), AF-S (Single-shot AF), AF-C (Continuous AF), DMF (Direct Manual Focus), Manual Focus 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) Other Features Eye-start AF (only with separately sold LA-EA2 or LA-EA4 attached), Lock-on AF, Eye AF, AF micro adjustment (only with separately sold LA-EA2 or LA-EA4 attached), Predictive control, Focus Lock, AF Track Sensitivity, Swt.V/H AF Area, AF Area Registration 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) Focus Type With LA-EA3 (Sold separately) Selectable (phase-detection, contrast-detection)
Exposure	Metering Type	1200-zone evaluative metering
	Metering Sensor	Exmor R CMOS sensor
	Metering Sensitivity	EV-3 to EV20 (at ISO100 equivalent with F2.0 lens attached)
	Metering Mode	Multi-segment, Center-weighted, Spot, Spot Standard / Large, Entire Screen Avg., Highlight
	Exposure Compensation	+/- 5.0EV(1/3 EV, 1/2 EV steps selectable) (with exposure compensation dial) : +/- 3EV (1/3 EV steps)
	Exposure Bracketting	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.
	AE Lock	Locked when shutter button is pressed halfway. Available with AE lock button. (On/Off/Auto)
	Exposure Modes	AUTO (Auto), 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)	Still images: ISO 100-32000 (ISO numbers up from ISO 50 to ISO 102400 can be set as expanded ISO range). 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)
	Anti-flicker Shoot.	Yes
Viewfinder	Viewfinder Type	1.3 cm [0.5-type] electronic viewfinder (color), Quad-VGA OLED Tru-Finder
	Number of Dots	3,686,400 dots
	Brightness Control (Viewfinder)	Auto/Manual (5 steps between -2 and +2)
	Color Temperature Control	Manual (5 steps)

Viewfinder (Cont.)	Field Coverage	100%
	Magnification	Aapprox. 0.78 x (with 50mm lens at infinity, -1m ⁻¹)
	Dioptrre Adjustment	-4.0 to +3.0m ⁻¹
	Eye Point	Approx. 23mm from the eyepiece lens, 18.5mm 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
LCD Screen	Display Content	Graphic Display, Display All Info., No Disp. Info., Digital Level Gauge, Histogram
	Type	7.5cm (3.0-type) type TFT
	Number of Dots	1,440,000 dots
	Touch Panel	Yes
	Brightness Control	Manual (5 steps between -2 and +2), Sunny Weather mode
	Adjustable Angle	Up by approx. 107 degrees, Down by approx. 41 degrees
	Display Selector (Finder/LCD)	Yes (Auto/Manual)
	Real-time Image Adjustment Display (LCD)	On/Off
	Quick Navi	Yes
	Focus Magnifier	Yes (35mm full frame: 6.2x, 12.4x APS-C: 4.0x, 8.0x)
	Zebra	Yes (Selectable level + range or lower limit as custom setting)
	Peaking MF	Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)
	Others	WhiteMagic [™] , Grid Line (Rule of 3rds Grid/Square Grid/Diag. + Square Grid/Off), Movie Marker (Center/Aspect/Safety Zone/Guideframe)
	Display Contents	Graphic Display, Display All Info., No Disp. Info, Digital Level Gauge, Histogram, for viewfinder, Monitor Off
Other Features	PlayMemories Camera Apps [™]	-
	Clear Image Zoom	Still images: Approx. 2x Movies: Approx. 1.5x (4K), Approx. 2x (HD)
	Digital Zoom	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
	Face Detection	[Modes] Face Priority inAF (On/Off), Face Priority in Multi Metering (On/Off), Regist. Faces Priority (On/Off) [Face registration] Max. number of detectable: 8
	Others	Touch Focus (Available with LCD monitor or Viewfinder operation), ISO AUTO Min. SS, Bright Monitoring, Copyright Info, Set File Name, FTP Transfer Func., Help guide, Area Setting, Shop Front Mode, Video Info Zoom, Zoom Ring Rotate
	Eye-Fi ready	-
Shutter	Type	Electronically-controlled, vertical-traverse, focal-plane type
	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);
	Flash Sync. Speed ^{*2}	1/250 sec.
	Electronic Front Curtain Shutter	Yes (ON/OFF)
	Silent Shooting	Yes (ON/OFF)
Image Stabilization	Type	Image Sensor-Shift mechanism with 5-axis compensation (Compensation depends on lens specifications)
	Compensation Effect	5.5 stops (based on CIPA standard. Pitch/yaw shake only. With Planar T* FE 50mm F1.4 ZA lens mounted. Long exposure NR off.)
Flash Control	Control	Pre-flash TTL
	Flash Compensation	+/- 3.0 EV (switchable between 1/3 and 1/2 EV steps)
	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 Modes	Flash off, Autoflash, Flash/Flash Slow Sync., Rear Sync., Red-eye reduction (on/off selectable), Wireless ^{*3} , Hi-speed sync. ^{*3}
	External Flash Compatibility	Sony α System Flash compatible with Multi Interface Shoe, attach the shoe adaptor for flash compatible with Auto-lock accessory shoe
Drive	FE Level Lock	Yes
	Wireless Control	Yes (Light signal: Available with Fill-flash, Slow Sync., Hi-speed sync. /Radio signal: Available with Fill-flash, Rear Sync., Slow Sync., Hi-speed sync.)
	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
	Continuous Drive Speed	Continuous shooting: Hi+: max. 10 fps, Hi: max. 8 fps, Mid: max. 6fps, Lo: max. 3 fps (approx. max.) ^{*4}
	No. of Recordable Frames (approx.) ^{*4}	JPEG Extra fine L: 76 frames, JPEG Fine L: 76 frames, JPEG Standard L: 76 frames, RAW: 76 frames, RAW&JPG: 76 frames, RAW (Uncompressed): 28 frames, RAW (Uncompressed)&JPG: 28 frames
Playback	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
	Pixel Shift Multi Shooting	Yes ^{*5}
	Photo Capture	Yes
	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: 10.1x), 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
	Interface	PC Interface Mass-storage, MTP, PC remote Multi / Micro USB Terminal ^{*6} Yes USB Type-C [™] Terminal Yes (SuperSpeed USB (USB 3.1 Gen 1) compatible) NFC [™] Yes (NFC forum Type 3 Tag compatible). One-touch remote, One-touch sharing Wireless LAN (Built-in) Wi-Fi Compatible, IEEE 802.11b/g/n (2.4GHz band), View on Smartphone, Send to Computer, View on TV ^{*7}
Audio	Bluetooth	Yes (Bluetooth Standard Ver. 4.1 (2.4GHz band))
	HD Output	HDMI micro connector (Type-D), BRAVIA Sync (Control for HDMI), PhotoTV HD, 4K movie output/ 4K still image PB
	Multi Interface Shoe ^{*8}	Yes
	Mic Terminal	Yes (3.5 mm Stereo minijack)
	Sync Terminal	Yes
Print	Headphone Terminal	Yes (3.5 mm Stereo minijack)
	Vertical Grip Connector	Yes
	PC Remote	Yes
	LAN Terminal	-
	Microphone	Built-in stereo microphone or XLR-K2M / XLR-K1M / ECM-XYST1M (sold separately)
Custom function	Speaker	Built-in, monaural
	Compatible Standards	Exif Print, Print Image Matching III, DPOF setting
	Type	Custom key settings, Programmable Setting (Body 3 sets / memory card 4 sets), My Menu, Reg Cust Shoot Set
	Setting	Peripheral Shading, Chromatic Aberration, Distortion
	Power	Supplied Battery One rechargeable battery pack NP-FZ100 Battery Life (Still Images) ^{*9} Approx. 530 shots (Viewfinder) / approx. 650 shots (LCD monitor) (CIPA standard) Battery Life (Movie, actual recording) ^{*10 *11} Approx. 100 min (Viewfinder) / Approx. 115 min (LCD monitor) (CIPA standard) Battery Life (Movie, continuous recording) ^{*10 *12} Approx. 180 min (Viewfinder) / Approx. 190 min (LCD monitor) (CIPA standard) Internal Battery Charge Yes (Available via Multi / Micro USB Terminal or USB Type-C [™] Terminal) Power Consumption With Viewfinder Still images: approx. 3.5W (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) Power Consumption With LCD Screen 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) USB Power Supply Yes (Available via Multi / Micro USB Terminal or USB Type-C [™] Terminal)
Size & Weight	Operating Temperature	32 - 104 degrees F / 0 - 40 degrees C
	Dimensions (W x H x D)	Approx. 126.9mm x 95.6mm x 73.7mm, Approx. 126.9mm x 95.6mm x 62.7mm (from grip to monitor) / Approx. 5 x 3 7/8 x 3 inches, Approx. 5 x 3 7/8 x 2 1/2 inches (from grip to monitor)
What's In The Box	Weight	Approx. 657 g / approx. 1lb 7.2 oz (with battery and memory card included)
		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} Phase-detection AF may not work with certain lenses or may require software update. See Sony support page for details. ^{*2} With compatible Sony external flash. ^{*3} With compatible external flash. ^{*4} Varies according to shooting conditions or memory card used. ^{*5} Images shot in Pixel Shift Multi Shooting mode can be processed using a dedicated imaging software by Sony. Maximum flash-sync speed is limited to 1/13 second. ^{*6} Supports Sony USB compatible device. ^{*7} (Configuration method/Access method) WPS or manually /infrastructure mode. When connecting to smartphones, the camera can always work with a base without a wireless access point. (Security: WEP/WPA-PSK/WPA2-PSK) ^{*8} Sony accessories for the Accessory Shoe can be attached. ^{*9} The LCD screen is turned on, shot once every 30 seconds, operate zoom alternately between W and T ends, flash strobe once every two times, turn power off and on once every ten times. ^{*10} Continuous movie recording is possible for approximately 29 minutes (limited by product specifications). ^{*11} Indication recording time, which is defined by repeating the cycle: Power on, start recording, zoom, stand-by and power off. ^{*12} The total movie recording time. When the limit of the continuous movie recording time (29 minutes) is reached, let the camera continue movie recording by pressing the MOVIE button again. No other operation such as zoom is performed.

Trademarks & Remarks

• **α**, "Exmor", "Exmor R", "BIONZ X", "BRAVIA", "SteadyShot", "InfoLithium", "Translucent Mirror Technology", "Tru-Finder", "Memory Stick", "Memory Stick PRO Duo", "Memory Stick PRO-HG Duo", "PlayMemories Home", "PlayMemories Mobile", "PlayMemories Mobile", "PlayMemories Camera Apps", "x.v.Color", "TRILUMINOS Color", "TRILUMINOS Display" and "XAVC S" are trademarks or registered trademarks of Sony Corporation. • "Xperia" is a trademark or registered trademark of Sony Mobile Communications AB. • "AVCHD" and "AVCHD Progressive" are trademarks of Panasonic Corporation and Sony Corporation. • The SD Logo, SDHC Logo and SDXC Logo are trademarks of SD-3C, LLC. • The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. • The Wi-Fi Protected Setup Identifier Mark is a mark of the Wi-Fi Alliance. • N-Mark is a registered trademark of the NFC Forum. • WhiteMagic is a trademark of Japan Display Inc. • App Store is a service mark of Apple Inc. • Android, Google Play logo and Google Play logo are trademarks or registered trademarks of Google Inc. • iPad is a trademark of Apple Inc., registered in the U.S. and other countries. • All other company and product names mentioned herein are used for identification purposes only and may be the trademarks or registered trademarks of their respective owners. • "InfoLithium" is a lithium battery pack which can exchange data with compatible electronic equipment about its energy consumption. • Sony recommends that you use the battery pack with electronic equipment bearing the "InfoLithium" mark. • Screen displays and effects used to illustrate some functions are simulated. • For use of other companies' services and software, 1) other conditions for use may be applied. 2) updating of services and software may be stopped/terminated without prior notice. 3) the contents of services and software may be changed without prior notice. 4) other registrations or payments of other fees may be required.

Specifications and features are subject to change without notice.