

General	Camera type	Interchangeable lens digital camera	
	Lens mount	E-mount	
Image sensor	Type	35 mm full frame (35.9 x 23.9 mm), Exmor R CMOS sensor	
	Number of pixels (effective)	Approx. 33.0 megapixels	
	Number of pixels (total)	Approx. 34.1 megapixels	
	Image sensor aspect ratio	3:02	
	Color filter	R, G, B primary color	
	Anti-Dust function	Yes (Charge protection coating on optical filter and image sensor shift mechanism)	
Recording system (still image)	Recording format	JPEG (DCF Ver. 2.0, Exif Ver. 2.32, MPF Baseline compliant), HEIF (MPEG-A MIAF compliant), RAW (Sony ARW 4.0 format compliant)	
	Image size (pixels) [3:2]	35 mm full frame L: 7008 x 4672 (33 M), M: 4608 x 3072 (14 M), S: 3504 x 2336 (8.2 M), APS-C M: 4608 x 3072 (14 M), S: 3504 x 2336 (8.2 M)	
	Image size (pixels) [4:3]	35 mm full frame L: 6224 x 4672 (29 M), M: 4096 x 3072 (13 M), S: 3120 x 2336 (7.3 M), APS-C M: 4096 x 3072 (13 M), S: 3120 x 2336 (7.3 M)	
	Image size (pixels) [16:9]	35 mm full frame L: 7008 x 3944 (28 M), M: 4608 x 2592 (12 M), S: 3504 x 1968 (6.9 M), APS-C M: 4608 x 2592 (12 M), S: 3504 x 1968 (6.9 M)	
	Image size (pixels) [1:1]	35 mm full frame L: 4672 x 4672 (22 M), M: 3072 x 3072 (9.4 M), S: 2336 x 2336 (5.5 M), APS-C M: 3072 x 3072 (9.4 M), S: 2336 x 2336 (5.5 M)	
	Image size (pixels) [Sweep Panorama]	-	
	Image quality modes	RAW (Compressed / Lossless Compressed / Uncompressed)	
		JPEG (Extra fine / Fine / Standard / Light)	
		HEIF (4:2:0 / 4:2:2) (Extra fine / Fine / Standard / Light)	
		RAW & JPEG	
		RAW & HEIF	
	14bit RAW	Yes	
	Picture Effect	-	
	Creative Style	-	
	Creative Look	ST, PT, NT, VV, VV2, FL, IN, SH, BW, SE, Custom Look (1-6)	
	Picture Profile	Yes (Off / PP1-PP11) Parameters: Black level, Gamma (Movie, Still, S-Cinetone, 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	
Soft Skin Effect	Yes		
Dynamic Range functions	Off, Dynamic Range Optimizer		
Color space	sRGB standard (with sYCC gamut), Adobe RGB standard and Rec. ITU-R BT.2100 standard (BT.2020 gamut). *1		
Recording system (video)	Recording format	XAVC S	
		XAVC HS	
	Video compression	XAVC S: MPEG-4 AVC/H.264	
		XAVC HS: MPEG-H HEVC/H.265	
	Audio recording format	LPCM 2 ch(48 kHz 16 bit), LPCM 2 ch(48 kHz 24 bit) *2, LPCM 4 ch(48 kHz 24 bit) *2, MPEG-4 AAC-LC 2 ch *3	

Recording system (movie)	Picture Effect	-
	Creative Style	-
	Creative Look	ST, PT, NT, VV, VV2, FL, IN, SH, BW, SE, Custom Look (1-6)
	Picture Profile	Yes (Off / PP1-PP11) Parameters: Black level, Gamma (Movie, Still, S-Cinetone, 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
	Soft Skin Effect	Yes
	Color space	Rec. ITU-R BT.2100 standard compatible (BT.2020 gamut) *4
Movie recording system (XAVC HS 8K)	7680 x 4320 (4:2:0, 10bit, NTSC) (Approx.)	-
	7680 x 4320 (4:2:0, 10bit, PAL) (Approx.)	-
Movie recording system (XAVC HS 4K)	3840 x 2160 (4:2:0, 10bit, NTSC) (Approx.)	60p (150 Mbps / 75 Mbps / 45 Mbps) *5 *6 24p (100 Mbps / 50 Mbps / 30 Mbps) *6
	3840 x 2160 (4:2:0, 10bit, PAL) (Approx.)	50p (150 Mbps / 75 Mbps / 45 Mbps) *5
	3840 x 2160 (4:2:2, 10bit, NTSC) (Approx.)	60p (200 Mbps / 100 Mbps) *5 *6 24p (100 Mbps / 50 Mbps) *6
	3840 x 2160 (4:2:2, 10bit, PAL) (Approx.)	50p (200 Mbps / 100 Mbps) *5
Movie recording system (XAVC S 4K)	3840 x 2160 (4:2:0, 8bit, NTSC) (Approx.)	60p (150 Mbps) *5 *6
		30p (100 Mbps / 60 Mbps) *6
		24p (100 Mbps / 60 Mbps) *6
	3840 x 2160 (4:2:0, 8bit, PAL) (Approx.)	50p (150 Mbps) *5
	3840 x 2160 (4:2:2, 10bit, NTSC) (Approx.)	25p (100 Mbps / 60 Mbps)
		60p (200 Mbps) *5 *6 30p (140 Mbps) *6 24p (100 Mbps) *6
3840 x 2160 (4:2:2, 10bit, PAL) (Approx.)	50p (200 Mbps) *5 25p (140 Mbps)	
Movie recording system (XAVC S HD)	1920 x 1080 (4:2:0, 8bit, NTSC) (Approx.)	120p (100 Mbps / 60 Mbps) *7 *6
		60p (50 Mbps / 25 Mbps) *6
		30p (50 Mbps / 16 Mbps) *6
		24p (50 Mbps) *6
	1920 x 1080 (4:2:0, 8bit, PAL) (Approx.)	100p (100 Mbps / 60 Mbps)
		50p (50 Mbps / 25 Mbps) 25p (50 Mbps / 16 Mbps)
	1920 x 1080 (4:2:2, 10bit, NTSC) (Approx.)	60p (50 Mbps) *6
		30p (50 Mbps) *6 24p (50 Mbps) *6
1920 x 1080 (4:2:2, 10bit, PAL) (Approx.)	50p (50 Mbps)	
	25p (50 Mbps)	
Movie recording system (XAVC S-I 4K)	3840 x 2160 (4:2:2, 10bit, NTSC) (Approx.)	60p (600 Mbps) *5 *6
		30p (300 Mbps) *6 24p (240 Mbps) *6
	3840 x 2160 (4:2:2, 10bit, PAL) (Approx.)	50p (500 Mbps) *5 25p (250 Mbps)
Movie recording system (XAVC S-I HD)	1920 x 1080 (4:2:2, 10bit, NTSC) (Approx.)	60p (222 Mbps) *6
		30p (111 Mbps) *6 24p (89 Mbps) *6
	1920 x 1080 (4:2:2, 10bit, PAL) (Approx.)	50p (185 Mbps) 25p (93 Mbps)
		NTSC mode:

Slow & Quick Motion (S&Q)	Image frame rate	1fps,2fps,4fps,8fps,15fps,30fps,60fps,120fps *7 *8 PAL mode: 1fps,2fps,3fps,6fps,12fps,25fps,50fps,100fps *7 *8
Movie function	Audio Level Display	Yes
	Audio Rec Level	Yes
	PAL/NTSC Selector	Yes
	Proxy Recording	Yes (1280 x 720 (Approx. 6 Mbps), 1920 x 1080(Approx. 9 Mbps), 1920 x 1080(Approx. 16 Mbps))
	TC/UB	Yes
	Auto Slow Shutter	Yes
	Gamma Disp. Assist	Yes
	RAW Output	-
Recording system	Location information Link from smartphone	Yes
	Media	SD memory card
		SDHC memory card (UHS-I/II compliant)
		SDXC memory card (UHS-I/II compliant)
		CFexpress Type A memory card
	Memory card slot	SLOT1: Multi slot for SD (UHS-I/II compliant) memory card / CFexpress Type A card, SLOT2: Slot for SD (UHS-I/II compliant) memory card
	Recording mode on 2 memory cards	Simult. Rec, Sort, Auto Switch Media, Copy
	File system	FAT12, 16, 32, exFAT
Noise reduction	Long exposure NR: On/Off, available at shutter speeds longer than 1 s High ISO NR: Normal / Low / Off	
White balance	Modes	Auto / Daylight / Shade / Cloudy / Incandescent / Fluorescent / Flash / Underwater / Color Temperature (2500 to 9900 K) & color filter / Custom
	Shutter AWB Lock	Yes (Shut. Halfway Down / Cont. Shooting / Off)
Focus system	Type	Fast Hybrid AF (phase-detection AF / contrast-detection AF)
	Focus sensor	Exmor R CMOS sensor
	Focus point	35 mm full frame: 759 points (phase-detection AF), APS-C mode with FF lens: 713 points (phase-detection AF), with APS-C lens: 575 points (phase-detection AF) / 425 points (contrast-detection AF)
	Sensitivity range	EV-4 to EV20 (ISO100 equivalent with F2.0 lens attached)
	AF mode	AF-A (Automatic AF), AF-S (Single-shot AF), AF-C (Continuous AF), DMF (Direct Manual Focus), Manual Focus
	Focus area	Wide / Zone / Center Fix / Spot / Expand Spot / Tracking
	Eye-start AF	-
	Eye AF	[Still images] Human (Right/Left Eye Select) / Animal (Right/Left Eye Select) / Bird, [Movie] Human (Right/Left Eye Select) / Animal (Right/Left Eye Select) / Bird
	Other features	Predictive control
		Focus lock
		AF Track Sens. (Still)
AF Subj. Shift Sensitivity (Movie)		
AF Transition Speed (Movie)		
	Switch V/H AF Area	

		AF Area Regist.	
		Circ. of Focus Point	
		Focus Map (Movie)	
		AF Assist (Movie)	
	AF illuminator	Yes (with Built-in LED type)	
	AF illuminator range	Approx. 0.3 m - approx. 3.0 m (with FE 28-70 mm F3.5-5.6 OSS lens attached)	
	AF micro adjustment	-	
Exposure control	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)	
	Modes		Multi-segment
			Center-weighted
			Spot (Standard / Large)
			Entire Screen Avg.
	Exposure modes		[Still images] Intelligent Auto (Auto) / Program Auto (P) / Aperture Priority (A) / Shutter Priority (S) / Manual Exposure (M)
			[Movie] Intelligent Auto (Auto) / Program Auto (P) / Aperture Priority (A) / Shutter Priority (S) / Manual Exposure (M) / Flexible Exp. Mode
			[Slow & Quick Motion] Intelligent Auto (Auto) / Program Auto (P) / Aperture Priority (A) / Shutter Priority (S) / Manual Exposure (M) / Flexible Exp. Mode
	Scene Selection	-	
	Exposure compensation	+/- 5.0 EV (1/3 EV, 1/2 EV steps selectable)	
	Bracketing	Bracket: Cont., Bracket: Single, 3/5/9 frames selectable. (Ambient light, Flash light)	
AE Lock	Locked when shutter button is pressed halfway. Available with AE lock button. (On/Off/Auto)		
ISO sensitivity (Recommended Exposure Index)	Still images: ISO 100-51200 (ISO numbers from ISO 50 to ISO 204800 can be set as expanded ISO range.), AUTO (ISO 100-12800, selectable lower limit and upper limit), Movies: ISO 100-51200 equivalent (ISO numbers up to ISO 102400 can be set as expanded ISO range.), AUTO (ISO 100-12800, selectable lower limit and upper limit)		
Anti-flicker Shoot.	Yes *9		
Viewfinder	Type	1.3 cm (0.5 type) electronic viewfinder (Quad-VGA OLED)	
	Number of dots	3 686 400 dots	
	Control function	Brightness, Color temperature	
	Field coverage	100%	
	Magnification	Approx. 0.78x (with 50 mm lens at infinity, -1m ⁻¹)	
	Diopter adjustment	-4.0 to +3.0 m ⁻¹	
	Eye point	Approx. 23 mm from the eyepiece lens, 18.5 mm from the eyepiece frame at -1m ⁻¹ (CIPA standard)	
	Display function	Histogram, Real-time image-adjustment display, Digital level gauge, Grid line, Focus check, Peaking MF, Zebra, Movie marker, Emphasized display during REC	
	Finder Frame Rate selection	NTSC mode: STD 60fps / HI 120fps, PAL mode: STD 50fps / HI 100fps	
	Type	7.5 cm (3.0-type) type TFT	
	Touch panel	Yes	

LCD screen	Number of dots (total)	1 036 800 dots
	Brightness control	Manual (5 steps between -2 and +2), Sunny Weather mode
	Display function	Histogram, Real-time image-adjustment display, Digital level gauge, Grid line, Focus check, Peaking MF, Zebra, Movie marker, For viewfinder, Monitor Off, Emphasized display during REC
	Adjustable angle	Opening Angle: Approx. 176 °., Rotation Angle: Approx. 270 °.
	Focus Check	Yes, Focus Magnifier (35 mm full frame: 5.5x / 11.0x, APS-C: 3.6x / 7.2x)
Face detection	Modes	Face/Eye Priority in AF, Face Priority in Multi Metering, Regist. Faces Priority
Auto Object Framing	Still images	-
Other features	Interval recording	Yes
	Smile Shutter	-
	Self-portrait Self-timer	-
	ISO AUTO Min. SS	Yes
	Bright Monitoring	Yes
	Copyright Info	Yes
	Set File Name	Yes
	Save/Import Settings	Yes
	PlayMemories Camera Apps	-
	Shooting Tips	-
	Help guide	Yes
	Video Light Mode	Yes
	Zoom Ring Rotate	Yes
	Clear Image Zoom	Still images
Movies		Approx. 1.5x (4K), Approx. 2x (HD)
Digital zoom	Smart zoom (Still images)	35 mm full frame: M: approx. 1.5x, S: approx. 2x APS-C: S: approx. 1.3x
	Digital zoom (Still images)	35 mm full frame: L: approx. 4x, M: approx. 6.1x, S: approx. 8x APS-C: M: approx. 4x, S: approx. 5.3x
	Digital zoom (Movie)	35 mm full frame: approx. 4x APS-C: approx. 4x
Shutter	Type	Electronically-controlled, vertical-traverse, focal-plane type
	Shutter Type	Mechanical shutter / Electronic shutter
	Shutter speed	Still images: 1/8000 to 30 s, 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 *10	1/250 s (35 mm full frame), 1/320 s (APS-C)
	Electronic Front Shutter Curtain	Yes (ON/OFF)
	Silent Shooting	Yes (ON/OFF)
SteadyShot INSIDE (image stabilization)	Type	Image Sensor-Shift mechanism with 5-axis compensation (Compensation depends on lens specifications)
	Compensation effect (Still images)	5.5 stops (based on CIPA standard. Pitch/yaw shake only. With Planar T* FE 50 mm F1.4 ZA lens mounted. Long exposure NR off.)
	Mode	[Still images] On / Off, [Movie] Active / Standard / Off
	Control	Pre-flash TTL *11
	Flash compensation	+/- 3.0 EV (switchable between 1/3 and 1/2 EV steps)
		Flash off
		Autoflash
		Fill-flash

Flash	Flash modes	Slow Sync.
		Rear Sync.
		Red-eye reduction (on/off selectable)
		Wireless *12
		Hi-speed sync. *12
Recycling time	-	
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	
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	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 s delay / 5 s delay / 2 s delay / Continuous self-time / Bracketing self-timer
	Pixel Shift Multi Shooting	-
	Speed (approx., max.) *13	Continuous shooting: Hi+: 10 fps, Hi: 8 fps, Mid: 6 fps, Lo: 3 fps
	No. of frame recordable* (approx.) *13	JPEG Extra fine L: over 1000 frames
		JPEG Fine L: over 1000 frames
JPEG Standard L: over 1000 frames		
RAW: over 1000 frames		
RAW & JPEG: over 1000 frames		
RAW (Lossless Compressed): over 1000 frames		
RAW (Lossless Compressed) & JPEG: over 1000 frames		
RAW (Uncompressed): over 1000 frames		
RAW (Uncompressed) & JPEG: 828 frames		
Playback	Modes	Single (with or without shooting information Y RGB histogram & highlight / shadow warning)
		Index view
		Enlarged display mode (L: 19.5x, M: 12.8x, S: 9.7x)
		Auto Review
		Image orientation
		Folder selection (Date / Still / Movie)
		Protect
		Rating
		Display as Group
		Shot Mark (Movie)
		Divider Frame
Photo Capture	Crop	
Photo Capture	Yes	
Accessibility	Screen Reader	Yes (Language: English, Speed: 7 steps, Volume: 16 steps) *14
	PC interface	Mass-storage / MTP
	Multi / Micro USB Terminal *15	Yes

Interface	USB Type-C® Terminal	Yes (SuperSpeed USB 10 Gbps (USB 3.2) compatible)	
	NFC	-	
	Sync. Terminal	-	
	Wireless LAN(built-in)	Yes (Wi-Fi Compatible, IEEE 802.11a/b/g/n/ac (2.4 GHz band/5 GHz band)) *16 *17	
	Bluetooth	Yes (Bluetooth Standard Ver. 4.1 (2.4 GHz band))	
	HDMI connector	HDMI connector (Type-A)	3840 x 2160 (60p / 50p / 30p / 25p / 24p) / 1920 x 1080 (60p / 50p / 24p) / 1920 x 1080 (60i / 50i). YCbCr 4:2:2 10 bit / RGB 8 bit *6
		Multi Interface Shoe *18	Yes (with Digital Audio Interface)
	Mic Terminal	Yes (3.5 mm Stereo minijack)	
	Headphone Terminal	Yes (3.5 mm Stereo minijack)	
	Wired	-	
	Remote Control (Wireless)	Yes (Bluetooth remote control)	
	Vertical Grip Connector	Yes	
	LAN terminal	-	
	Functions	FTP Transfer Func.(Wired LAN(USB-LAN), USB Tethering, Wi-Fi)	
View on Smartphone			
Remote control via Smartphone			
PC Remote			
BRAVIA Sync (Control for HDMI)			
PhotoTV HD			
USB Streaming	Video data format	MJPEG YUV420 *19	
	Video resolution	3840 x 2160 (15p / 12.5p) / 1920 x 1080 (60p / 50p / 30p / 25p) / 1280 x 720 (30p / 25p)	
	Audio data format	LPCM 2ch (16 bit 48 kHz)	
	Simultaneous internal recording	Yes	
Audio	Microphone	Built-in, stereo	
	Speaker	Built-in, monaural	
Print	Compatible standards	Exif Print, Print Image Matching III	
Custom function	Custom key settings	Yes	
	My Menu	Yes	
	My Dial Settings	Yes	
	Reg Cust Shoot Set	Yes	
	Programmable Setting	Yes (Body 9 sets /memory card 12 sets)	
Lens compensation	Lens compensation	Peripheral Shading, Chromatic Aberration, Distortion, Breathing (Movie)	
Power	Battery	One rechargeable battery pack NP-FZ100	
	Still images *20	Approx. 520 shots (Viewfinder) / approx. 580 shots (LCD monitor) (CIPA standard)	
	Movies (actual recording) *21	Approx. 100 min (Viewfinder) / Approx. 110 min (LCD monitor) (CIPA standard)	
	Movies (continuous recording)	Approx. 170 min (Viewfinder) / Approx. 175 min (LCD monitor) (CIPA standard)	
	Internal battery charge	Yes (Available with USB Type-C Terminal. USB Power Delivery compatible)	
	USB power supply	Yes (Available with USB Type-C Terminal. USB Power Delivery compatible)	
Power consumption	External power (AC Adaptor)	-	
	With Viewfinder	Still images: approx. 3.8 W (with FE 28-70 mm F3.5-5.6 OSS lens attached), Movies: approx. 5.7 W (with FE 28-70 mm F3.5-5.6 OSS lens attached)	

Power consumption	With LCD screen	Still images: approx. 3.4 W (with FE 28-70 mm F3.5-5.6 OSS lens attached), Movies: approx. 5.6 W (with FE 28-70 mm F3.5-5.6 OSS lens attached)
Weight	With battery and memory Card included	Approx. 658 g
	oz. With battery and memory card included	approx. 1 lb 7.3 oz
	Body only	Approx. 573 g
	oz Body only	approx. 1 lb 4.3 oz
Dimensions	DIMENSIONS (W x H x D)	Approx. 131.3 mm x 96.4 mm x 79.8 mm, Approx. 131.3 mm x 96.4 mm x 69.7 mm (FROM GRIP TO MONITOR)
	inches. DIMENSIONS (W x H x D)	Approx. 5 1/4 x 3 7/8 x 3 1/4 inches, Approx. 5 1/4 x 3 7/8 x 2 3/4 inches (FROM GRIP TO MONITOR)
Operating Temperature	Operating temperature	0 - 40 / 32 - 104 °F
Supplied Accessory	Kit Lens	-
	Supplied Accessory	Rechargeable Battery NP-FZ100
		AC adaptor
		Shoulder strap
		Body cap
		Accessory shoe cap
		Eyepiece cup
		USB-A to USB-C cable (USB 3.2)

- *1 When [HLG Still Image] setting is set to [On].
- *2 When using accessories that support 4ch output / 24 bits with the Multi Interface Shoe.
- *3 Proxy movies
- *4 When [Gamma] is set to [HLG] and [Color Mode] is set to [BT.2020] in [Picture Profile].
- *5 [APS-C S35 shooting] is locked to [On] when shooting movies in 4K 60p/50p.
- *6 120p: 119.88fps, 60p: 59.94fps, 30p: 29.97fps, 24p: 23.98fps
- *7 When [APS-C S35 shooting] is set to [On], number of effective pixels: 1570 x 886 at 120 or 100 fps.
- *8 120 or 100 fps is not available when using [XAVC HS 4K], [XAVC S 4K], or [XAVC S-I 4K] file formats.
- *9 Anti-flicker Shooting is not available when the [Shutter Type] setting is set to [Electronic Shutter].
- *10 With compatible Sony external flash
- *11 A flash cannot be used when [Shutter Type] is set to [Electronic Shutter].
- *12 With compatible external flash
- *13 Varies according to shooting conditions or memory card used
- *14 This function is available only when the menu language is set to English on North American models. (As of the release date)
- *15 Supports Micro USB compatible device.
- *16 Models sold in some countries/regions support IEEE 802.11b/g/n (2.4GHz) wireless LAN only.
- *17 (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/WPA3-SAE)

*18

Sony accessories for the Accessory Shoe can be attached.

*19

When [Resolution] is set to [HD(720p)], [MJPEG] is only available.

*20

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.

*21

Indication recording time, which is defined by repeating the cycle: Power on, start recording, zoom , stand-by and power off.