

Clifton Cameras Product Specification

Sony a9 III Digital Camera

Specifications

General

Camera type: Interchangeable lens digital camera

Lens mount: E-mount

Camera section

Image sensor –

Type: 35mm full frame (35.6 x 23.8 mm), Exmor RS CMOS sensor

Number Of Pixels (Effective): Still images: Approx. 24.6 megapixels max.

Number Of Pixels (Effective): Movies: Approx. 20.3 megapixels max.

Number of Pixels (total): Approx. 25.2 megapixels

Optical low pass filter: Yes

Color temperature range: 2500 K - 9900 K

Anti-Dust System: Yes

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 5.0 format compliant)

Image Size (pixels) [3:2]: 35mm full frame L: 6000 x 4000 (24 M), M: 3936 x 2632 (10 M), S: 3008 x 2000 (6.0 M)

Image Quality Modes: RAW

Quality Modes: JPEG

Image Quality Modes: HEIF (4:2:0 / 4:2:2)

Image Quality Modes: RAW & JPEG

Image Quality Modes: RAW & HEIF

14bit RAW Output: Yes

Recording system (movie) -

Video Compression: XAVC S: MPEG-4 AVC/H.264



Video Compression: XAVC HS: MPEG-H HEVC/H.265

Audio Recording Format: LPCM 2ch (48 kHz 16 bit), LPCM 2ch (48 kHz 24 bit)*2 , LPCM 4ch (48 kHz 24 bit)*2

Movie recording format (XAVC HS 4K):

3840 x 2160 (4:2:0, 10bit) (Approx.) 119.88p (200 Mbps)
100p (200 Mbps)
59.94p (150 Mbps / 75 Mbps / 45 Mbps)
50p (150 Mbps / 75 Mbps / 45 Mbps)
23.98p (100 Mbps / 50 Mbps / 30 Mbps)

3840 x 2160 (4:2:2, 10bit) (Approx.) 119.88p (280 Mbps)
100p (280 Mbps)
59.94p (200 Mbps / 100 Mbps)
50p (200 Mbps / 100 Mbps)
23.98p (100 Mbps / 50 Mbps)

Movie recording format (XAVC S 4K):

3840 x 2160 (4:2:0, 8bit) (Approx.) 119.88p (200 Mbps)
100p (200 Mbps)
59.94p (150 Mbps)
50p (150 Mbps)
29.97p (100 Mbps / 60 Mbps)
25p (100 Mbps / 60 Mbps)
23.98p (100 Mbps / 60 Mbps)

3840 x 2160 (4:2:2, 10bit) (Approx.) 119.88p (280 Mbps)
100p (280 Mbps)
59.94p (200 Mbps)
50p (200 Mbps)
29.97p (140 Mbps)
25p (140 Mbps)
23.98p (100 Mbps)

Movie recording format (XAVC S HD):



1920 x 1080 (4:2:0, 8bit) (Approx.)	119.88p (100 Mbps / 60 Mbps)
	100p (100 Mbps / 60 Mbps)
	59.94p (50 Mbps / 25 Mbps)
	50p (50 Mbps / 25 Mbps)
	29.97p (50 Mbps / 16 Mbps)
	25p (50 Mbps / 16 Mbps)
	23.98p (50 Mbps)

1920 x 1080 (4:2:2, 10bit) (Approx.)	59.94p (50 Mbps)
	50p (50 Mbps)
	29.97p (50 Mbps)
	25p (50 Mbps)
	23.98p (50 Mbps)

Movie recording format (XAVC S-I 4K):

3840 x 2160 (4:2:2, 10bit) (Approx.)	59.94p (600 Mbps)
	50p (500 Mbps)
	29.97p (300 Mbps)
	25p (250 Mbps)
	23.98p (240 Mbps)

Movie recording format (XAVC S-I HD):

1920 x 1080 (4:2:2, 10bit) (Approx.)	59.94p (222 Mbps)
	50p (185 Mbps)
	29.97p (111 Mbps)
	25p (93 Mbps)
	23.98p (89 Mbps)

Movie function

Slow & Quick Motion (S&Q):	Yes
Proxy recording:	Yes
TC/UB Recording (movie):	Yes
RAW Output:	Yes (HDMI)



Focus system

Type:	Fast Hybrid AF (phase-detection AF / contrast-detection AF)
Focus Point:	Still images: Max. 759 points (phase-detection AF) Movies: Max. 759 points (phase-detection AF)
Focus Sensitivity Range:	EV-5 to EV20 (ISO100 equivalent with F2.0 lens attached in AF-S)
Recognition target (Still images):	Human; Animal; Bird; Insect; Car; Train; Airplane
Recognition target (Movies):	Human; Animal; Bird; Insect; Car; Train; Airplane
Other Features:	AF Level for Crossing (Still) AF Track for Speed Change (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)

Exposure Control

Metering Type:	1200-zone evaluative metering
Metering Sensitivity:	EV-3 to EV20 (ISO100 equivalent with F2.0 lens attached)
Exposure Compensation:	+/- 5.0 EV (1/3 EV, 1/2 EV steps selectable)
ISO sensitivity (Recommended Index):	Still images: ISO 250 - 25600 (expandable to ISO 125 - 51200), AUTO (ISO 250 - 12800, selectable lower limit and upper limit)
lower limit and upper limit)	Movies: ISO 250 - 25600 equivalent, AUTO (ISO 250 - 12800, selectable)
Anti-flicker Shoot:	Yes

Viewfinder

Type:	1.6 cm (0.64 type) electronic viewfinder (Quad-XGA OLED)
Number of Dots:	9 437 184 dots
Magnification:	Approx. 0.90x (with 50 mm lens at infinity, -1 m⁻¹)



Dioptré Adjustment:	-4.0 to +3.0 m ⁻¹
Eye Point: 1 m ⁻¹ (CIPA standard)	Approx. 25 mm from the eyepiece lens, 21 mm from the eyepiece frame at -
Finder Frame Rate Selection: 50fps / HI 100fps / HIGHER 200fps	NTSC mode: STD 60fps / HI 120fps / HIGHER 240fps, PAL mode: STD

LCD screen

Type:	8.0 cm (3.2-type) type TFT
Touch Panel:	Yes
Number of Dots:	2 095 104 dots
Adjustable Angle:	Opening Angles (approx.): Up 98 °, down 40 °, side 180 °, rotation 270 °

Other features: Soft Skin Effect; Creative Look; Custom function; Picture Profile; Time-lapse; Auto Framing; Pre-Capture; Continuous Shooting Speed Boost; NR Shooting

Clear Image Zoom:	Approx. 2x
	Approx. 1.5x (4K), Approx. 2x (HD)

Shutter

Shutter type:	Electronic shutter
Shutter Speed:	Still images: 1/80000 to 30 s, Bulb
	Movies: 1/8000 to 1 s
Flash Sync. Speed:	1/80000 s*4 , 1/500 s

Image Stabilization

Type: depends on lens specifications)	Image sensor-shift mechanism with 5-axis compensation (compensation depends on lens specifications)
Compensation Effect:	8.0 stops (based on CIPA standard. Pitch/yaw shake only. With FE 50mm F1.2 GM lens mounted. Long exposure NR off.)
Mode:	Still images: On / Off
	Movie: Dynamic active / Active / Standard / Off

Flash

Type:	-
Control:	Pre-flash TTL
Flash Compensation:	+/- 3.0 EV (switchable between 1/3 and 1/2 EV steps)

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



Continuous drive speed (approx., max.)*5:	Hi+: 120 fps
No. of recordable frames (approx.):	JPEG Extra fine L: 192 frames
	JPEG Fine L: 192 frames
	JPEG Standard L: 192 frames
	RAW: 192 frames
	RAW & JPG: 192 frames
	RAW (Uncompressed): 96 frames
	RAW (Uncompressed) & JPG: 96 frames
	RAW (Lossless Compressed): 96 frames
	RAW (Lossless Compressed) & JPEG: 96 frames
Pixel Shift Multi Shooting:	-
Playback	
Modes: Divider Frame; Crop; Photo Capture	Enlarged display mode; Protect; Rating; Shot Mark (Movie);
Accessibility	
Functions: Display; Subject Recognition in AF; Touch Focus; screen; Custom function; Enlarge Menu Screen	Screen Reader; Focus Magnifier; Focus Map (Movie); Peaking Touch Tracking; Touch Shutter; Touch AE; Multi-angle LCD
Interface	
PC Interface:	Mass-storage / MTP
Multi / Micro USB terminal*6:	Yes
USB Type-C® Terminal:	Yes (SuperSpeed USB 10 Gbps (USB 3.2) compatible)
NFC™:	-
Sync Terminal:	Yes
Wireless LAN (Built-In): GHz band))*7 *8	Yes (Wi-Fi Compatible, IEEE 802.11a/b/g/n/ac (2.4 GHz band/5
Bluetooth:	Yes (Bluetooth Standard Ver. 5.0 (2.4 GHz band))
HD Output:	HDMI connector (Type-A)
	3840 x 2160 (59.94p / 50p / 29.97p / 25p / 23.98p) / 1920 x 1080 (59.94p / 50p / 23.98p) / 1920 x 1080 (59.94i / 50i), YCbCr 4:2:2 10bit / RGB 8bit
	4672x2628 (59.94p / 29.97p / 23.98p) , Raw 16bit
Multi Interface Shoe*9:	Yes (with Digital Audio Interface)



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Mic Terminal:	Yes (3.5 mm Stereo minijack)
Headphone Terminal:	Yes (3.5 mm Stereo minijack)
Remote Control (Wireless):	Yes (Bluetooth remote control)
LAN terminal:	Yes (1000BASE-T, 100BASE-TX, 10BASE-T)
Functions:	FTP Transfer Func.(Wired LAN, USB Tethering, Wi-Fi) Send to smartphone Remote control via smartphone PC Remote

USB Streaming

Video data format:	MJPEG YUV420*10 3840 x 2160 (15p / 30p) 3840 x 2160 (12.5p / 25p) 1920 x 1080 (30p / 60p) 1920 x 1080 (25p / 50p) 1280 x 720 (30p) 1280 x 720 (25p) LPCM 2ch (16bit 48 kHz)
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Audio

Microphone:	Built-in, stereo Built-in, voice memo
Speaker:	Built-in, monaural

Lens Compensation

Setting:	Shading, Chromatic Aberration, Distortion, Breathing (Movie)
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Power

Supplied Battery:	One rechargeable battery pack NP-FZ100
Battery Life (Still Images)*11: (CIPA standard)	Approx. 410 shots (Viewfinder) / Approx. 520 shots (LCD monitor)
Battery Life (Movie, actual recording)*12: (CIPA standard)	Approx. 90 min (Viewfinder) / Approx. 95 min (LCD monitor)



Battery Life (Movie, continuous recording): (CIPA standard)	Approx. 145 min (Viewfinder) / Approx. 150 min (LCD monitor)
Internal Battery Charge:	Yes (Available with USB Type-C Terminal. USB Power Delivery compatible)
USB Power supply: compatible)	Yes (Available with USB Type-C Terminal. USB Power Delivery compatible)
Power consumption with Viewfinder: attached)	Still images: Approx. 4.8 W (with FE 28-70mm F3.5-5.6 OSS lens attached) Movies: Approx. 6.8 W (with FE 28-70mm F3.5-5.6 OSS lens attached)
Power consumption with LCD screen: attached)	Still images: Approx. 3.8 W (with FE 28-70mm F3.5-5.6 OSS lens attached) Movies: Approx. 6.6 W (with FE 28-70mm F3.5-5.6 OSS lens attached)
Weight (with battery and memory card included):	Approx. 703 g / Approx. 1 lb 8.8 oz
Weight - Body only:	Approx. 618 g / Approx. 1 lb 5.8 oz

Dimensions

Dimensions (W x H x D): (FROM GRIP TO MONITOR)	Approx. 136.1 x 96.9 x 82.9 mm, Approx. 136.1 x 96.9 x 72.8 mm Approx. 5 3/8 x 3 7/8 x 3 3/8 inches, Approx. 5 3/8 x 3 7/8 x 2 7/8 inches (FROM GRIP TO MONITOR)
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Operating Temperature: 0 - 40 °C / 32 - 104 °F

Supplied Accessory:

- Rechargeable Battery NP-FZ100
- Battery Charger BC-QZ1
- Power cord
- Cable Protector
- Shoulder strap
- Body cap
- Accessory shoe cap
- Eyepiece cup

*1 Number of effective pixels varies depending on attached lenses and camera settings.

*2 When using accessories that support 4ch output / 24 bits with the Multi Interface Shoe.

*3 With compatible Sony external flash



*4 With compatible external flash

*5 Varies according to shooting conditions or memory card used

*6 Supports Micro USB compatible device.

*7 (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)

*8 Models sold in some countries/regions support IEEE 802.11b/g/n (2.4GHz) wireless LAN only.

*9 Sony accessories for the Accessory Shoe can be attached.

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

*11 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.

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