

## Clifton Cameras Product Specification

### Sony a7c II Digital Camera Body

Item	Spec
Lens Mount	E-mount
Type	35mm full frame (35.9 x 23.9 mm), Exmor R CMOS sensor
Number Of Pixels (Effective)	Still images: Approx. 33.0 megapixels max.
Number Of Pixels (Effective)	Movies: Approx. 27.6 megapixels max.
Anti-Dust System	Yes
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]	35mm full frame L: 7008 x 4672 (33 M), M: 4608 x 3072 (14 M), S: 3504 x 2336 (8.2 M)
Image Quality Modes	RAW
Image Quality Modes	JPEG
Image Quality Modes	HEIF (4:2:0 / 4:2:2)
Image Quality Modes	RAW & JPEG
Image Quality Modes	RAW & HEIF
RAW Output	Yes
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
Anti-Dust System	Yes
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)
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Image Quality Modes	RAW & JPEG
Image Quality Modes	RAW & HEIF
RAW Output	Yes
Video Compression	XAVC S: MPEG-4 AVC/H.264
Video Compression	XAVC HS: MPEG-H HEVC/H.265
Movie Functions	Yes
Memory Card Slot	Slot for SD (UHS-I/II compliant) memory card
Focus Point	Still images: Max. 759 points (phase-detection AF)
Focus Point	Movies: Max. 627 points (phase-detection AF)
Other Features	AF Track Sens. (Still)
Other Features	AF Subj. Shift Sensitivity (Movie)
Other Features	AF Transition Speed (Movie)
Other Features	Switch V/H AF Area
Other Features	AF Area Regist.
Other Features	Circ. of Focus Point
Other Features	Focus Map (Movie)
Other Features	AF Assist (Movie)
AF Illuminator	Yes (with Built-in LED type)
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 Exposure Index)	Still images: ISO 100 - 51200 (expandable to ISO 50 - 204800), AUTO (ISO 100 - 12800, selectable lower limit and upper limit)
ISO sensitivity (Recommended Exposure Index)	Movies: ISO 100 - 51200 equivalent (expandable to ISO 100 - 102400), AUTO (ISO 100 - 12800, selectable lower limit and upper limit)
Anti-flicker Shoot.	Yes*3
Viewfinder Type	1.0 cm (0.39 type) electronic viewfinder (XGA OLED)
Number of Dots	2 359 296 dots

Magnification	Approx. 0.70x (with 50 mm lens at infinity, -1 m <sup>-1</sup> )
Dioptrre Adjustment	-4.0 to +3.0 m <sup>-1</sup>
Eye Point	Approx. 22 mm from the eyepiece lens, 19.6 mm from the eyepiece frame at -1 m <sup>-1</sup> (CIPA standard)
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
Number of Dots	1 036 800 dots
Adjustable Angle	Opening Angle: Approx. 176 °, Rotation Angle: Approx. 270 °
Clear Image Zoom	Approx. 2x
Clear Image Zoom	Approx. 1.5x (4K), Approx. 2x (HD)
Shutter Speed	Still images (Mechanical shutter): 1/4000 to 30 s, Bulb
Shutter Speed	Still images (Electronic shutter): 1/8000 to 30 s
Shutter Speed	Movies: 1/8000 to 1 s
Flash Sync. Speed	1/160 s (35mm full frame), 1/200 s (APS-C)
Electronic Front Curtain Shutter	Yes
Type	Image sensor-shift mechanism with 5-axis compensation (compensation depends on lens specifications)
Compensation Effect	7.0 stops (based on CIPA standard. Pitch/yaw shake only. With FE 50mm F1.2 GM lens mounted. Long exposure NR off.)
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
Continuous Drive Speed (approx. max.)	Hi+: 10 fps
No. of recordable frames (approx.)	JPEG Extra fine L: 88 frames

No. of recordable frames (approx.)	JPEG Fine L: over 1000 frames
No. of recordable frames (approx.)	JPEG Standard L: over 1000 frames
No. of recordable frames (approx.)	RAW: 44 frames
No. of recordable frames (approx.)	RAW & JPEG: 35 frames
No. of recordable frames (approx.)	RAW (Lossless Compressed): 27 frames
No. of recordable frames (approx.)	RAW (Lossless Compressed) & JPEG: 20 frames
No. of recordable frames (approx.)	RAW (Uncompressed): 18 frames
No. of recordable frames (approx.)	RAW (Uncompressed) & JPEG: 16 frames
Modes	Enlarged display mode
Modes	Protect
Modes	Rating
Modes	Shot Mark (Movie)
Modes	Divider Frame
Modes	Crop
Modes	Photo Capture
PC Interface	Mass Storage / MTP
Multi / Micro USB Terminal	-
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))*7 *8
Bluetooth	Yes (Bluetooth Standard Ver. 4.2 (2.4 GHz band))
HD Output	HDMI micro connector (Type-D)
HD Output	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

Multi Interface Shoe	Yes (with Digital Audio Interface)
Mic Terminal	Yes (3.5 mm Stereo minijack)
Headphone Terminal	Yes (3.5 mm Stereo minijack)
Microphone	Built-in, stereo
Speaker	Built-in, monaural
Setting	Shading, Chromatic Aberration, Distortion, Breathing (Movie)
Supplied Battery	One rechargeable battery pack NP-FZ100
Battery Life (Still Images)	Approx. 530 shots (Viewfinder) / Approx. 560 shots (LCD monitor) (CIPA standard)
Battery Life (Movie, actual recording)	Approx. 100 min (Viewfinder) / Approx. 105 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 with Viewfinder	Still images: Approx. 3.7 W (with FE 28-60mm F4-5.6 lens attached)
Power consumption with Viewfinder	Movies: Approx. 6.0 W (with FE 28-60mm F4-5.6 lens attached)
Power consumption with LCD screen	Still images: Approx. 3.5 W (with FE 28-60mm F4-5.6 lens attached)
Power consumption with LCD screen	Movies: Approx. 6.0 W (with FE 28-60mm F4-5.6 lens attached)
Weight (with battery and memory card included)	Approx. 514 g
Weight (with battery and memory card included)	Approx. 1 lb 2.2 oz
Dimensions (W x H x D)	Approx. 124.0 x 71.1 x 63.4 mm, Approx. 124.0 x 71.1 x 58.6 mm (FROM GRIP TO MONITOR)
Dimensions (W x H x D)	Approx. 5 x 2 7/8 x 2 1/2 inches, Approx. 5 x 2 7/8 x 2 3/8 inches (FROM GRIP TO MONITOR)
Operating Temperature	0 - 40 °C / 32 - 104 °F

- \*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 Anti-flicker Shooting is not available when the [Shutter Type] setting is set to [Electronic Shutter].
- \*4 With compatible Sony 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/WPA3-SAE)
- \*8 Models sold in some countries/regions support IEEE 802.11b/g/n (2.4GHz) wireless LAN only.
- \*9 (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)
- \*10 Sony accessories for the Accessory Shoe can be attached.
- \*11 When [Resolution] is set to [HD(720p)], [MJPEG] is only available.
- \*12 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.
- \*13 Indication recording time, which is defined by repeating the cycle: Power on, start recording, zoom , stand-by and power off.