

Specifications

SONY FDR AX1



Imaging Sensor	
Imaging Sensor	1/2.3 type back-illuminated “Exmor R™” CMOS Sensor
Pixel Gross	Approx. 18900K pixels
Effective Picture Resolution (movie)	Approx. 8300K pixels
Colour Filter System	RGB primary color filters.
Recording	
Microphones. Max input level	120dB SPL
Media Type	XQD Memory Card x 2
Video Format	XAVC S format MPEG4-AVC/H264
Video Mode (Resolution)*1	4K: 3840×2160 60P (150 Mbps), 3840×2160 30P (100 Mbps) 3840×2160 30P (60 Mbps), 3840×2160 24P (100 Mbps) 3840×2160 24P (60 Mbps), 3840×2160 50P (150 Mbps) 3840×2160 25P (100 Mbps), 3840×2160 25P (60 Mbps) HD: 1920×1080 60P (50 Mbps), 1920×1080 30P (50 Mbps) 1920×1080 24P (50 Mbps), 1920×1080 50P (50 Mbps) 1920×1080 25P (50 Mbps)
Video Actual (Pixel)	Approx. 8300K pixels
Video Signal	UHDTV HDTV
Audio Format	Linear PCM 2ch (48kHz/16bit)
Microphone / Speaker	Built-in Stereo Microphone Monaural Speaker
Mic Level Control	Yes (2steps)
Wind Position	Yes (Off/On)
Optics / Lens	
Lens Type	G™ Lens
Lens Stabilisation	Optical SteadyShot™ image stabilisation
Aperture	F1.6 - F3.4
Optical Zoom	20x
Focal Length (35mm equivalent) (Movie Mode)	f=4.1 - 82.0mm f=31.5 - 630mm
Filter Diameter	72mm
Minimum Focus Distance	Approx. 1cm (Wide), Approx. 80cm (Tele) Approx. 13/32inch (Wide), Approx. 31 1/2inch (Tele)
Aperture Blade	6 blades
ND Filter	OFF, 1/4, 1/16, 1/64
Focus Ring	Yes
Zoom Ring	Yes
Iris Ring	Yes
Viewfinder	
Type	0.45type
VF Backlight	Yes
VF Power Mode	Yes
LCD Display	
LCD Type	8.8cm (3.5 type) Xtra Fine LCD™ 3D display (1,229K) Wide (16:9)
Angle Adjustment	Opening Angle: max. 180 deg., Turning Angle: max. 270 deg.
LCD Backlight	Yes (Menu)
Coverage	100%
Marker	Yes
Focus Control	
Focus System	Contrast AF
AF Modes	Auto/Manual (Ring)
Focus Area	Full range Focus
Push Auto Focus	Yes
Manual Focus Assist	Magnified display for precise manual focus Peaking Display

*1 60P:59.94P, 30P:29.97P, 24P:23.98P *2 including the projecting parts *3 including lens hood *4 including a battery pack, a media and a lens hood. *5 Recording mode and media are default settings.

Exposure System	
Metering Modes	Multi-segment
Exposure Compensation	AE level / AE Speed (Menu)
Noise Reduction	Yes
White Balance Mode	Auto / One push / Outdoor / Indoor / Color temp
WB Shift	Yes
Minimum Illumination*1	60P : 4 lux (1/30 Shutter Speed) 50P : 3 lux (1/25 Shutter Speed)
Auto Iris Control	F1.6 - F11.0
Manual Iris Control	F1.6 - F11.0
Push Auto Iris	Yes
Manual Exposure Assist	Zebra Pattern Display

Interface	
Memory Card Slot	XQD x2 (for XAVC S) Memory Stick PRO Duo™, Memory Stick PRO-HG Duo™ and SD/SDHC/SDXC compatible x1 (for AVCHD) SD/SDHC/SDXC x1 (Utility SD slot)
STD Output	Composite Video Out (AV CABLE (sold separately))
HD Output	HDMI Out (supplied)
4K Output	HDMI Out (supplied)
USB Port (s)	mini-B / USB2.0 Hi-speed / mass-storage-TypeA / USB2.0 Hi-speed /Host
Headphone Jack	Stereo Minijack
Line Input (Analog Audio)	XLR
Microphone Input	XLR
DC IN	Yes
Remote Termnal	Remote terminal
HDMI Terminal	Yes
Accessory Shoe	Yes

Weights and Measurements	
Dimensions (Approx.)(WxHxD including supplied battery)*2 *3	Approx. 189mm (W) × 193mm (H) × 362mm (D) Approx. 7 7/16 inch × 7 19/32inch × 14 1/4 inch
Weight (Approx) (Main unit only)	Approx. 2440g Approx. 86.1oz
Weight (Approx.) (Total)*4	Approx. 2770g (NP-F970) Approx. 97.7oz (NP-F970)

Power	
Battery Type	NP-F970
Power Consumption (in Viewfinder Operation)*1*5	4K : 14.2W (30P, 60Mbps) HD : 15.4W (60P, 50Mbps)
Power Consumption (in LCD Operation)*1*5	4K : 14.5W (30P, 60Mbps) HD : 15.7W (60P, 50Mbps)
Power Requirements	7.2V (battery pack); 12.4V (AC Adaptor)

In the Box	
Supplied Accessories	Rechargeable Battery Pack (NP-F970) AC adaptor (AC-NB12A) Battery Charger (AC-VL1) HDMI Cable USB Cable Operating Guide Large eyecup Lens hood A/V connecting cable XQD Card License CD-ROM

XAVC S Movie Expected Recording Time		
	XAVC S 3840×2160 60P (150Mbps)	XAVC S 1920×1080 60P (50Mbps)
32GB XQD Memory Card	25min	70min
64GB XQD Memory Card	50min	150min

Environmental Information

Halogenated flame retardants are not used in certain printed wiring boards. Recycled paper is used for the carton.

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* Screen displays are simulated.
* Simulated effects are used to illustrated some functions