

Sony FX2 Specification

[Sony FX2](#)

Camera type	Interchangeable lens digital camera
Lens mount	E-mount
Type	35mm full frame (35.9 x 23.9 mm), Exmor R CMOS sensor
Number of pixels (effective)*1	Still images: Approx. 33.0 megapixels max.
Number of pixels (effective)*1	Movies: Approx. 27.6 megapixels max.
Number of pixels (total)	Approx. 34.1 megapixels
Optical low pass filter	Yes
Latitude	15+ stops (S-Log3)
Color temperature range	2500 K - 9900 K
Anti-Dust function	Yes
Recording Format(Still Image)	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: 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
14bit RAW	Yes
Video compression	XAVC HS: MPEG-H HEVC/H.265
Video compression	XAVC S: MPEG-4 AVC/H.264
Audio recording format	LPCM 2ch (48 kHz 16 bit), LPCM 2ch (48 kHz 24 bit)*2 , LPCM 4ch (48 kHz 24 bit)*2
3840 x 2160 (4:2:0, 10bit) (Approx.)	59.94p (150 Mbps / 75 Mbps / 45 Mbps)
3840 x 2160 (4:2:0, 10bit) (Approx.)	23.98p (100 Mbps / 50 Mbps / 30 Mbps)
3840 x 2160 (4:2:0, 10bit) (Approx.)	50p (150 Mbps / 75 Mbps / 45 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	59.94p (200 Mbps / 100 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	23.98p (100 Mbps / 50 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	50p (200 Mbps / 100 Mbps)
3840 x 2160 (4:2:0, 8bit) (Approx.)	59.94p (150 Mbps)
3840 x 2160 (4:2:0, 8bit) (Approx.)	29.97p (100 Mbps / 60 Mbps)
3840 x 2160 (4:2:0, 8bit) (Approx.)	23.98p (100 Mbps / 60 Mbps)
3840 x 2160 (4:2:0, 8bit) (Approx.)	50p (150 Mbps)
3840 x 2160 (4:2:0, 8bit) (Approx.)	25p (100 Mbps / 60 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	59.94p (200 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	29.97p (140 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	23.98p (100 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	50p (200 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	25p (140 Mbps)
1920 x 1080 (4:2:0, 8bit) (Approx.)	119.88p (100 Mbps / 60 Mbps)
1920 x 1080 (4:2:0, 8bit) (Approx.)	59.94p (50 Mbps / 25 Mbps)

1920 x 1080 (4:2:0, 8bit) (Approx.)	29.97p (50 Mbps / 16 Mbps)
1920 x 1080 (4:2:0, 8bit) (Approx.)	23.98p (50 Mbps)
1920 x 1080 (4:2:0, 8bit) (Approx.)	100p (100 Mbps / 60 Mbps)
1920 x 1080 (4:2:0, 8bit) (Approx.)	50p (50 Mbps / 25 Mbps)
1920 x 1080 (4:2:0, 8bit) (Approx.)	25p (50 Mbps / 16 Mbps)
1920 x 1080 (4:2:2, 10bit) (Approx.)	59.94p (50 Mbps)
1920 x 1080 (4:2:2, 10bit) (Approx.)	29.97p (50 Mbps)
1920 x 1080 (4:2:2, 10bit) (Approx.)	23.98p (50 Mbps)
1920 x 1080 (4:2:2, 10bit) (Approx.)	50p (50 Mbps)
1920 x 1080 (4:2:2, 10bit) (Approx.)	25p (50 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	59.94p (600 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	29.97p (300 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	23.98p (240 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	50p (500 Mbps)
3840 x 2160 (4:2:2, 10bit) (Approx.)	25p (250 Mbps)
4096 x 2160 (4:2:2, 10bit) (Approx.)	59.94p (600 Mbps)
4096 x 2160 (4:2:2, 10bit) (Approx.)	29.97p (300 Mbps)
4096 x 2160 (4:2:2, 10bit) (Approx.)	23.98p (240 Mbps)
4096 x 2160 (4:2:2, 10bit) (Approx.)	50p (500 Mbps)
4096 x 2160 (4:2:2, 10bit) (Approx.)	25p (250 Mbps)
4096 x 2160 (4:2:2, 10bit) (Approx.)	24.00p (240 Mbps)
1920 x 1080 (4:2:2, 10bit) (Approx.)	59.94p (222 Mbps)
1920 x 1080 (4:2:2, 10bit) (Approx.)	29.97p (111 Mbps)
1920 x 1080 (4:2:2, 10bit) (Approx.)	23.98p (89 Mbps)
1920 x 1080 (4:2:2, 10bit) (Approx.)	50p (185 Mbps)
1920 x 1080 (4:2:2, 10bit) (Approx.)	25p (93 Mbps)
Slow & Quick Motion (S&Q)	Yes
Proxy recording	Yes
TC/UB	Yes
RAW Output	Yes (HDMI)
Memory card slot	SLOT1: Multi slot for SD (UHS-I/II compliant) memory card / CFexpress 2 Type A card, SLOT2: SD (UHS-I/II compliant) memory card
Type	Fast Hybrid AF (phase-detection AF / contrast-detection AF)
Focus point	Still images: Max. 759 points (phase-detection AF), Movies: Max. 627 points (phase-detection AF)
Sensitivity range	EV-4 to EV20 (ISO100 equivalent with F2.0 lens attached)
Recognition target (Still images)	Auto
Recognition target (Still images)	Human
Recognition target (Still images)	Animal
Recognition target (Still images)	Bird
Recognition target (Still images)	Insect
Recognition target (Still images)	Car
Recognition target (Still images)	Train
Recognition target (Still images)	Airplane
Recognition target (Movies)	Auto
Recognition target (Movies)	Human

Recognition target (Movies)	Animal
Recognition target (Movies)	Bird
Recognition target (Movies)	Insect
Recognition target (Movies)	Car
Recognition target (Movies)	Train
Recognition target (Movies)	Airplane
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)
Metering type	1200-zone evaluative metering
Metering sensitivity	EV-3 to EV20 (at ISO100 equivalent with F2.0 lens attached)
Exposure compensation	+/- 5.0 EV (1/3 EV, 1/2 EV steps selectable)
ISO sensitivity	Still images: ISO 100 - 51200 (expandable to ISO 50 - 204800), AUTO (ISO 100 - 12800, selectable lower limit and upper limit)
ISO sensitivity	Movies: ISO 100 - 51200 equivalent (expandable to ISO 102400), AUTO (ISO 100 - 12800, selectable lower limit and upper limit)
Anti-flicker Shoot.	Yes *3
Type	1.3 cm (0.5 type) electronic viewfinder (Quad-VGA OLED)
Number of dots	3 686 400 dots
Magnification	Approx. 0.70x (with 50 mm lens at infinity, -1 m ^{<sup>-1</sup>}
Diopter adjustment	-4.0-+3.0 m ^{<sup>-1</sup>}
Eye point	Approx. 33 mm from the eyepiece lens, 27 mm from the eyepiece frame at -1 m ^{<sup>-1</sup> (CIPA standard)}
Finder frame rate selection	STD 60fps / HI 120fps
Type	7.5 cm (3.0-type) type TFT
Touch panel	Yes
Number of dots (total)	1 036 800 dots
Adjustable angle	Opening Angle: Approx. 176 °, Rotation Angle: Approx. 270 °
Still images	Approx. 2x
Movies	Approx. 1.5x (4K), Approx. 2x (HD)
Shutter type	Mechanical shutter / Electronic shutter
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*4	1/160 s (35mm full frame), 1/200 s (APS-C)
Electronic Front Shutter Curtain	Yes

Type	Image sensor-shift mechanism with 5-axis compensation (compensation depends on lens specifications)
Compensation effect (still images)	Center 5.0 stops and Periphery 5.0 stops (based on CIPA2024 standard. Pitch/yaw/roll shake only. With FE 50 mm F1.2 GM lens mounted. Long exposure NR off.)
Mode	Still images: On / Off
Mode	Movie: Dynamic active / Active / Standard / Off
Continuous drive speed (approx., max.)*5	Hi+: 10 fps
No. of frame recordable* (approx.)*5	JPEG Extra fine L: over 1000 frames
No. of frame recordable* (approx.)*5	JPEG Fine L: over 1000 frames
No. of frame recordable* (approx.)*5	JPEG Standard L: over 1000 frames
No. of frame recordable* (approx.)*5	RAW: over 1000 frames
No. of frame recordable* (approx.)*5	RAW & JPEG: over 1000 frames
No. of frame recordable* (approx.)*5	RAW (Uncompressed): over 1000 frames
No. of frame recordable* (approx.)*5	RAW (Uncompressed) & JPEG: over 1000 frames
No. of frame recordable* (approx.)*5	RAW (Lossless Compressed): over 1000 frames
No. of frame recordable* (approx.)*5	RAW (Lossless Compressed) & JPEG: over 1000 frames
Modes	Enlarged Image
Modes	Protect
Modes	Rating
Modes	Shot Mark (Movie)
Modes	Divider Frame
Modes	Crop
Modes	Photo Capture
Functions	Screen Reader
Functions	Focus Magnifier
Functions	Focus Map (Movie)
Functions	Peaking Display
Functions	Subject Recognition in AF
Functions	Touch Focus
Functions	Touch Tracking
Functions	Touch Shutter
Functions	Touch AE
Functions	Vari-angle LCD screen
Functions	Custom function
Functions	Enlarge Screen
PC interface	Mass-storage / MTP
Multi / Micro USB terminal*6	Yes
USB Type-C® Terminal	Yes (SuperSpeed USB 10 Gbps (USB 3.2) compatible)
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. 5.0 (2.4 GHz band))
HDMI output	HDMI connector (Type-A)

HDMI output	4096 x 2160 (59.94p / 50p / 29.97p / 25p / 24.00p / 23.98p) / 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
HDMI output	4672 x 2628 (59.94p / 50p / 29.97p / 25p / 24.00p / 23.98p), Raw 16bit
Multi Interface Shoe*9	Yes (with Digital Audio Interface)
Mic Terminal	Yes (3.5 mm Stereo minijack)
Headphone terminal	Yes (3.5 mm Stereo minijack)
Remote Control (Wireless)	Yes (Bluetooth remote control)
Functions	Send to smartphone
Functions	Remote control via smartphone
Functions	Remote Shooting
Video data format	MJPEG
Video data format	YUV420*10
Video resolution	3840 x 2160 (14.99p / 29.97p)
Video resolution	1920 x 1080 (29.97p / 59.94p)
Video resolution	1280 x 720 (29.97p)
Video resolution	3840 x 2160 (12.5p / 25p)
Video resolution	1920 x 1080 (25p / 50p)
Video resolution	1280 x 720 (25p)
Audio data format	LPCM 2ch (16bit 48 kHz)
Video data format	MPEG-4 AVC/H.264
Video data format	MPEG-H HEVC/H.265 *11
Video resolution	3840 x 2160 (29.97p / 59.94p)
Video resolution	3840 x 2160 (25p / 50p)
Video resolution	2560 x 1440 (29.97p / 59.94p)
Video resolution	2560 x 1440 (25p / 50p)
Video resolution	1920 x 1080 (29.97p / 59.94p)
Video resolution	1920 x 1080 (25p / 50p)
Video resolution	1280 x 720 (29.97p / 59.94p)
Video resolution	1280 x 720 (25p / 50p)
Audio data format	AAC-LC 2ch (16bit 48 kHz)
Protocol	RTMP
Protocol	RTMPS
Protocol	SRT
Microphone	Built-in, stereo
Speaker	Built-in, monaural
Lens compensation	Shading, Chromatic Aberration, Distortion, Breathing (Movie)
Battery	One rechargeable battery pack NP-FZ100
Still images*12	Approx. 470 shots (Viewfinder) / Approx. 520 shots (LCD monitor) (CIPA standard)
Movies (actual shooting)*13	Approx. 90 min (Viewfinder) / Approx. 100 min (LCD monitor) (CIPA standard)
Movies (continuous shooting)	Approx. 150 min (Viewfinder) / Approx. 155 min (LCD monitor) (CIPA standard)
Internal battery charge	Yes (Available with USB Type-C terminal. USB Power Delivery compatible)*14

USB power supply	Yes (Available with USB Type-C Terminal. USB Power Delivery compatible)
With viewfinder	Still images: Approx. 4.2 W (with FE 28-70mm F3.5-5.6 OSS lens attached)
With viewfinder	Movies: Approx. 6.6 W (with FE 28-70mm F3.5-5.6 OSS lens attached)
With LCD screen	Still images: Approx. 3.8 W (with FE 28-70mm F3.5-5.6 OSS lens attached)
With LCD screen	Movies: Approx. 6.3 W (with FE 28-70mm F3.5-5.6 OSS lens attached)
including Accessory	Approx. 683 g (battery pack, SD card, Eyepiece cup)
With battery and memory card	Approx. 679 g
With battery and memory card (oz.)	Approx. 1 lb 8.0 oz
Body only	Approx. 594 g
Body only (oz.)	Approx. 1 lb 5.0 oz
Dimensions (W x H x D)	Approx. 129.7 x 77.8 x 103.7 mm, Approx. 129.7 x 77.8 x 85.0 mm (from grip to monitor)
Dimensions (W x H x D) (in.)	Approx. 5 1/8 x 3 1/8 x 4 1/8 inches, Approx. 5 1/8 x 3 1/8 x 3 3/8 inches (from grip to monitor)
Operating temperature	0 - 40 °C / 32 - 104 °F
Storage temperature	-20 to 55 °C / -4 to 131 °F
Supplied Accessory	Rechargeable Battery NP-FZ100
Supplied Accessory	Body cap
Supplied Accessory	Accessory shoe cap
Supplied Accessory	Eyepiece cup