



Clifton Cameras Product Specification

Sony FX3 Full-Frame Cinema Line Camera

General	Camera Type	Interchangeable lens digital camera
	Lens Mount	E-mount
Size & Weight (Approx.)	Weight (main unit only)	715 g (1 lb 9.3 oz) (with battery and memory card included), 640 g (1 lb 6.6 oz) (body only)
	Weight (including supplied accessories)	1.015 kg (2 lb 3.8 oz) (with XLR Handle, battery pack, SD card)
	Dimensions (W x H x D)	129.7 mm x 77.8 mm x 84.5 mm (5 1/8 x 3 1/8 x 3 3/8 inches) (body without protrusions)
Power	Power Consumption	[Movie] Approx. 7.3W (with FE 28-70mm F3.5-5.6 OSS lens attached)
		[Still image] Approx. 3.4W (with FE 28-70mm F3.5-5.6 OSS lens attached)
	Battery Operating Time	Approx. 95 min (Actual recording, CIPA standard) *1
		Approx. 135 min(Continuous recording, CIPA standard)
		Approx. 600 shots (LCD monitor) (Still image, CIPA standard)
Operation	Operating Temperature	0 to 40 degrees C
		32 to 104 degrees F
	Storage Temperature	-20 to +60 degrees C
		-4 to +140 degrees F
Recording (video)	Recording Format (Video)	[XAVC S-I 4K]
		XAVC S-I 4K 59.94p, 600Mbps 4:2:2 10bit, MPEG-4 AVC / H.264
		XAVC S-I 4K 50p, 500Mbps 4:2:2 10bit, MPEG-4 AVC / H.264
		XAVC S-I 4K 29.97p, 300Mbps 4:2:2 10bit, MPEG-4 AVC / H.264
		XAVC S-I 4K 25p, 250Mbps 4:2:2 10bit, MPEG-4 AVC / H.264
		XAVC S-I 4K 23.98p, 240Mbps 4:2:2 10bit, MPEG-4 AVC / H.264
		[XAVC S-I HD]

		XAVC S-I HD 59.94p 222Mbps 4:2:2 10bit MPEG-4 AVC / H.264
		XAVC S-I HD 50p 185Mbps 4:2:2 10bit MPEG-4 AVC / H.264
		XAVC S-I HD 29.97p 111Mbps 4:2:2 10bit MPEG-4 AVC / H.264
		XAVC S-I HD 25p 93Mbps 4:2:2 10bit MPEG-4 AVC / H.264
		XAVC S-I HD 23.98p 89Mbps 4:2:2 10bit MPEG-4 AVC / H.264
		[XAVC S 4K]
		XAVC S 4K 59.94p 200Mbps 4:2:2 10bit MPEG-4 AVC / H.264
		XAVC S 4K 50p 150Mbps 4:2:2 10bit MPEG-4 AVC / H.264
		XAVC S 4K 29.97p/25p 140Mbps 4:2:2 10bit MPEG-4 AVC / H.264
		XAVC S 4K 23.98p 100Mbps 4:2:2 10bit MPEG-4 AVC / H.264
		XAVC S 4K 29.97p/25p/23.98p 100Mbps 4:2:0 8bit MPEG-4 AVC / H.264
		XAVC S 4K 29.97p/25p/23.98p 60Mbps 4:2:0 8bit MPEG-4 AVC / H.264
		XAVC S 4K 119.88p/100p 280Mbps 4:2:2 10bit MPEG-4 AVC / H.264
		XAVC S 4K 119.88p/100p 200Mbps 4:2:0 8bit MPEG-4 AVC / H.264
		[XAVC S HD]
		XAVC S HD 59.94p/50p/29.97p/25p/ 23.98p 50Mbps 4:2:2 10bit MPEG-4 AVC / H.264
		XAVC S HD 59.94p/50p/29.97p/25p/ 23.98p 50Mbps 4:2:0 8bit MPEG-4 AVC / H.264
		XAVC S HD 59.94p/50p 25Mbps 4:2:0 8bit MPEG-4 AVC / H.264

		XAVC HD 29.97p/25p 16Mbps 4:2:0 8bit MPEG-4 AVC / H.264
		XAVC S HD 119.88p/100p 100Mbps 4:2:0 8bit MPEG-4 AVC / H.264
		XAVC S HD 119.88p/100p 60Mbps 4:2:0 8bit MPEG-4 AVC / H.264
		[XAVC HS 4K]
		XAVC HS 4K 59.94p/50p 200Mbps 4:2:2 10bit MPEG-H HEVC / H.265
		XAVC HS 4K 59.94p/50p 150Mbps 4:2:0 10bit MPEG-H HEVC / H.265
		XAVC HS 4K 59.94p/50p/23.98p 100Mbps 4:2:2 10bit MPEG-H HEVC / H.265
		XAVC HS 4K 59.94p/50p 75Mbps 4:2:0 10bit MPEG-H HEVC / H.265
		XAVC HS 4K 59.94p/50p 45Mbps 4:2:0 10bit MPEG-H HEVC / H.265
		XAVC HS 4K 23.98p 100Mbps 4:2:0 10bit MPEG-H HEVC / H.265
		XAVC HS 4K 23.98p 50Mbps 4:2:2 10bit MPEG-H HEVC / H.265
		XAVC HS 4K 23.98p 50Mbps 4:2:0 10bit MPEG-H HEVC / H.265
		XAVC HS 4K 23.98p 30Mbps 4:2:0 10bit MPEG-H HEVC / H.265
		XAVC HS 4K 119.88p/100p 280Mbps 4:2:2 10bit MPEG-H HEVC / H.265
		XAVC HS 4K 119.88p/100p 200Mbps 4:2:0 10bit MPEG-H HEVC / H.265
	Recording Format (Audio)	LPCM 2ch(48kHz 16bit), LPCM 2ch(48kHz 24bit), LPCM 4ch(48kHz 24bit), MPEG-4 AAC-LC 2ch

	Recording Frame Rate	[XAVC S-I 4K]3840x2160/59.94P, 50P, 29.97P, 23.98P, 25P [XAVC S-I HD]1920x1080/59.94P, 50P, 29.97P, 23.98P, 25P [XAVC S 4K]3840x2160/119.88p,100p,59.94P, 50P, 29.97P, 23.98P, 25P [XAVC S HD]1920x1080/119.88p,100p,59.94P, 50P, 29.97P, 23.98P, 25P [XAVC HS 4K]3840x2160/119.88p,100p,59.94P, 50P, 29.97P, 23.98P, 25P
	Recording/Playback Time	[XAVC S-I 4K]
		XAVC S-I 4K 59.94p/50p When using CEA-G160T (160 GB) Approx. 25 minutes When using CEA-G80T (80GB) Approx. 10 minutes
		[XAVC S-I HD]
		XAVC S-I HD 59.94p/50p When using CEA-G160T (160 GB) Approx. 75 minutes When using CEA-G80T (80GB) Approx. 35 minutes
		[XAVC S 4K]
		XAVC S 4K 59.94p/50p 200M When using CEA-G160T (160 GB) Approx. 85 minutes When using CEA-G80T (80GB) Approx. 40 minutes
		XAVC S 4K 59.94p/50p 150M When using CEA-G160T (160 GB) Approx. 110 minutes When using CEA-G80T (80GB) Approx. 55 minutes
		[XAVC S HD]
		XAVC S HD 59.94p/50p 50M When using CEA-G160T (160 GB) Approx. 310 minutes When using CEA-G80T (80GB) Approx. 150 minutes
		XAVC S HD 59.94p/50p 25M When using CEA-G160T (160 GB) Approx. 550 minutes When using CEA-G80T (80GB) Approx. 210 minutes
		[XAVC HS 4K]
		XAVC HS 4K 59.94p/50p 200M When using CEA-G160T (160 GB) Approx. 85 minutes When using CEA-G80T (80GB) Approx. 40 minutes

		XAVC HS 4K 59.94p/50p 150M When using CEA-G160T (160 GB) Approx. 110 minutes When using CEA-G80T (80GB) Approx. 55 minutes
		XAVC HS 4K 59.94p/50p 100M When using CEA-G160T (160 GB) Approx. 170 minutes When using CEA-G80T (80GB) Approx. 80 minutes
		XAVC HS 4K 59.94p/50p 75M When using CEA-G160T (160 GB) Approx. 220 minutes When using CEA-G80T (80GB) Approx. 100 minutes
		XAVC HS 4K 59.94p/50p 45M When using CEA-G160T (160 GB) Approx. 340 minutes When using CEA-G80T (80GB) Approx. 160 minutes
	Recording Format (Proxy Audio)	XAVC Proxy: AAC-LC, 128kbps kbps, 2 channels
	Recording Format (Proxy Video)	[XAVC HS HD] MPEG-H HEVC/H.265 1920x1080 4:2:0 10bit 16Mbps 1920x1080 4:2:0 10bit 9Mbps [XAVC S HD] MPEG-4 AVC/H.264 1280x720 4:2:0 8bit 6Mbps
	RAW Output	HDMI:4264 x 2408 (60p / 50p / 30p / 25p / 24p), 16bit
Other video function	Video functions	Audio Level Display
		Audio Rec Level
		TC/UB
		Creative Look
		Gamma Display Assist
		PAL/NTSC Selector
Recording (Still)	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: 4240 x 2832 (12M), M: 2768 x 1848 (5.1M), S: 2128 x 1416 (3.0M)APS-C L: 2768 x 1848 (5.1M), M: 2128 x 1416 (3.0M), S: 1376 x 920 (1.3M)

	Image size (pixels) [4:3]	35mm full frame L: 3776 x 2832 (11M), M: 2464 x 1848 (4.6M), S: 1888 x 1416 (2.7M)APS-C L: 2464 x 1848 (4.6M), M: 1888 x 1416 (2.7M), S: 1232 x 920 (1.1M)
	Image size (pixels) [16:9]	35mm full frame L: 4240 x 2384 (10M), M: 2768 x 1560 (4.3M), S: 2128 x 1200 (2.6M)APS-C L: 2768 x 1560 (4.3M), M: 2128 x 1200 (2.6M), S: 1376 x 776 (1.1M)
	Image size (pixels) [1:1]	35mm full frame L: 2832 x 2832 (8M), M: 1840 x 1840 (3.4M), S: 1408 x 1408 (2.0M)APS-C L: 1840 x 1840 (3.4M), M: 1408 x 1408 (2.0M), S: 912 x 912 (0.8M)
Camera Section	Imaging Device (Type)	35mm full frame (35.6 x 23.8 mm), Exmor R CMOS sensor
	Number of pixels (effective)	Movie: Approx. 10.2 megapixels, Still image: Approx. 12.1 megapixels
	Number of pixels (total)	Approx. 12.9 megapixels
	ISO Sensitivity	[Movie] ISO 80-102400 equivalent (Expandable to ISO 409600), AUTO (ISO 80-12800, selectable lower limit and upper limit), [Still image] ISO 80-102400 (Expandable to ISO 40- 409600), AUTO (ISO 80-12800, selectable lower limit and upper limit),
	Shutter Speed	[Movie] 1/8000 to 1/4 (1/3 steps), up to 1/50 in AUTO mode (up to 1/25 in Auto slow shutter mode), [Still image] 1/8000 to 30 sec, Bulb
	Slow and Quick Motion Function	[XAVC S-I 4K / XAVC S 4K / XAVC HS 4K]NTSC mode: 1fps,2fps,4fps,8fps,15fps,30fps,60fps,120fps*2 ,PAL mode:1fps,2fps,3fps,6fps,12fps,25fps,50fps,100fps*2
		[XAVC S-I HD / XAVC S 4K]NTSC mode: 1fps,2fps,4fps,8fps,15fps,30fps,60fps,120fps
		240fps*2 PAL mode: 1fps,2fps,3fps,6fps,12fps,25fps,50fps,100fps
		200fps*2
	White Balance	Auto / Daylight / Shade / Cloudy / Incandescent / Fluorescent / Flash / Underwater / Color Temperature (2500 to 9900K) & color filter / Custom
	Gamma Curve	Off / PP1-PP11, Parameters: Black level, Gamma (Movie, Still, 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

	Latitude	15+ stop (S-Log3)
Focus System	Type	Fast Hybrid AF (phase-detection AF / contrast-detection AF)
	Focus point	[Movie] 627 points, [Still image] 35mm full frame: 759 points (phase-detection AF)
	Sensitivity range	EV-6 to EV20 (ISO100 equivalent with F2.0 lens attached)
	Focus mode	[Movie] AF-C, MF [Still image] AF-A (Automatic AF), AF-S (Single-shot AF), AF-C (Continuous AF), DMF (Direct Manual Focus), Manual Focus
	Focus area	[Movie] Wide / Zone / Center / Flexible Spot / Expanded Flexible Spot [Still image] Wide / Zone / Center / Flexible Spot / Expanded Flexible Spot / Tracking
	Other focus features	Eye AF ([Movie] Human (Right/Left Eye Select, [Still image] Human (Right/Left Eye Select) / Animal,)
		[Movie] AF Subj. Shift Sensitivity
		[Movie] AF Transition Speed
		Face detection (Face Priority in AF
		Face Priority in Multi Metering
		Regist. Faces Priority)
		Focus Magnifier (35mm full frame: 2.1x / 4.1x APS-C: 1.5x / 3.0x)
Exposure Control	Metering sensitivity	EV-3 to EV20 (at ISO100 equivalent with F2.0 lens attached)
	Exposure Modes	[Movie] Programmed AE (P) / Aperture priority (A) / Shutter-speed priority (S) / Manual (M) / Flexible Exp. Mode
		[Still images] Programmed AE (P) / Aperture priority (A) / Shutter-speed priority (S) / Manual (M)
Playback	Playback functions	Index view
		Folder selection (Date / Still / Movie)
		Photo capture
		4Ch audio monitoring
		Auto Review (stills)
		Image orientation (stills)
		Protect (stills)
		Rating (stills)

		Display as Group (stills)
Interface	Audio Input	3.5 mm Stereo minijack, XLR handle: [INPUT1][INPUT2] XLR/TRS-type 3-pin(female) (x2), line/mic/mic +48V selectable, Mic Reference -40 to -60 dBu / [INPUT3] 3.5 mm Stereo minijack)
	USB Terminal	USB Type-C (x1, SuperSpeed USB 5Gbps (USB 3.2) compatible), Multi/Micro USB (x1)
	Headphone Output	3.5 mm Stereo minijack
	Speaker Output	Built-in, monaural
	HDMI Output	HDMI connector (Type-A
		YCbCr 4:2:2 10bit / RGB 8bit
	Multi Interface Shoe	With Digital Audio Interface
Monitoring	LCD	7.5cm (3.0-type), Approx. 1.44M dots, touch panel,
		Opening Angle:Approx. 176 deg., Rotation Angle:Approx. 270 deg.
Built-in Microphone	Built-in Microphone	Built-in, stereo
Media	Type	CFexpress Type A / SD card (x2), Simult. Rec, Sort, Auto Switch Media, Copy
File System	File System	FAT12, 16, 32, exFAT
Zoom	Zoom Function	Zoom ring rotate
		Clear Image Zoom ([Movie] Approx. 1.5x (4K)
		Approx. 2x (HD) [Still image] Approx. 2x)
		Digital zoom ([Movie] 35mm full frame: approx. 4x APS-C: approx. 4x
		[Still image] 35mm full frame: L: approx. 4x
		M: approx. 6.1x
		S: approx. 8xAPS-C: L: approx. 4x, M:approx. 5.2x, S: approx. 8x),
		Smart zoom ([Still image] 35mm full frame: M: approx. 1.5x, S: approx. 2xAPS-C: M:approx. 1.3x, S: approx. 2x)
Still image function	Shutter	Mechanical shutter / Electronic shutter
	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
	Continuous shooting speed	Hi+: 10 fps, Hi: 8 fps, Mid: 6 fps, Lo: 3 fps

	Noise reduction	Long exposure NR: On/Off, available at shutter speeds longer than 1 sec., High ISO NR: Normal / Low / Off
	Flash control	Sony α System Flash compatible with Multi Interface Shoe, attach the shoe adaptor for flash compatible with Auto-lock accessory shoe, Flash sync speed 1/125 sec
	Other still image function	Electronic Front Shutter Curtain
		Silent Shooting
		Anti-flicker Shoot.*3
Image Stabilization	Type	Image Sensor-Shift mechanism with 5-axis compensation (Compensation depends on lens specifications)
	Mode	[Movie] Active / Standard / Off, [Still image] On / Off
	Compensation Effect (still images)	5.5 stops (based on CIPA standard. Pitch/yaw shake only. With Planar T* FE 50mm F1.4 ZA lens mounted. Long exposure NR off.)
Custom Function	Custom Function	Custom key settings, My Menu, My Dial Settings
Lens Compensation	Lens Compensation	Peripheral Shading, Chromatic Aberration, Distortion
Wi-Fi/NFC	Supported Format	IEEE 802.11 a/b/g/n/ac
	Frequency Band	2.4GHz band/5GHz bandwidth*4
	Security	WEP/WPA-PSK/WPA2-PSK
	NFC	NFC forum Type 3 Tag compatible
Bluetooth	Bluetooth	Bluetooth Standard Ver. 5.0 (2.4GHz band))
FTP Transfer	FTP Transfer	FTP Transfer Func. (Wired LAN (USB-LAN), USB Tethering, Wi-Fi)
Supplied Accessories	Supplied Accessories	Rechargeable Battery NP-FZ100; Battery Charger BC-QZ1; Power cord; XLR handle unit; Accessory shoe kit; Body cap; Accessory shoe cap; Handle shoe cap; USB-A to USB-C cable (USB 3.2)