



PXW-FX9

Discover FX9, Sony's full-frame 6K sensor camera with Fast Hybrid AF, Dual Base ISO and S-Cinetone™ color science.



FX9



PXW-FX9/PXW-FX9K

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Watch Now

Full-frame creativity

Realize beautiful 4K imagery with the creative freedom made possible by oversampling a huge high resolution full-frame sensor. Capture every detail from the scene with shallow depth of field and stunning bokeh for a truly cinematic look. 15+ stops of dynamic range and Dual Base ISO enable you to capture every nuance, from subtle shadow detail to specular highlights, with an immaculate color palette.

Capturing the impossible



Make sure your story's always clear with enhanced Fast Hybrid AF that tracks your subject with unprecedented speed, smoothness, and precision. Its impact is transformative for premium documentary, commercial, and event applications. Your ability to precisely capture your subject's expression is further enhanced with Sony's unique Eye AF* and Real-time Tracking.**

**Ver2.0 is required.*

***Ver3.0 is required.*

Shoot in comfort, expand your horizons



The FX9 revolutionizes full-frame cinematography with peerless ergonomics and advanced technology for on-the-go shooting. The world's first full-frame electronic variable ND filter* transforms possibilities for shooting in variable lighting conditions. Built-in Wi-Fi and 12G-SDI support advanced workflows while the optional XDCA-FX9 extension unit further expands the operational possibilities of the PXW-FX9. Ver.2.0 firmware adds HLG and User 3D LUTs while Ver.3.0 enhances support for multi-cam applications with S700 Protocol over Ethernet and anamorphic lens support with de-squeeze x2.0 and x1.3 on viewfinder.

**As of September 2019*

6K Full-Frame "Exmor R" sensor for stunning picture quality

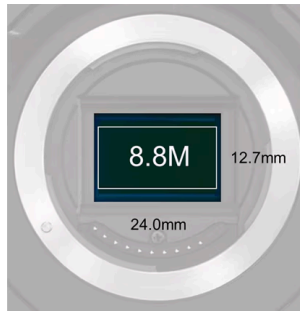


The back-illuminated full-frame 6K CMOS sensor uses Sony's Exmor R technology for improved sensitivity and reduced noise. When recording at DCI 4K* Ultra HD resolutions, the ability to oversample and capture at 6K, combined with powerful image processing, ensures that subtle details and textures beyond those that can be captured by a conventional 4K sensor are retained while at the same time noise is reduced.

Compared to a 4K Super 35mm sensor, the FX9's 6K sensor has over twice the surface area, providing a wider angle of view, making it easier to gain a shallower depth of field. You can also shoot with Super 35mm lenses without compromise, capturing at 4K in super 35 mm with all the benefits of this advanced imaging sensor.

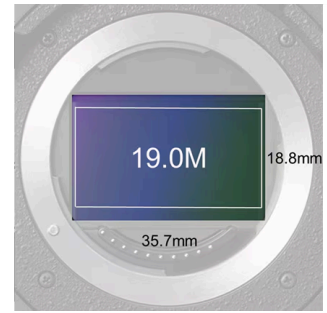
**DCI 4K (4096 x 2160 at 17:9 recording) requires Ver.2.0 or higher firmware.*

[Discover full-frame technology >](#)



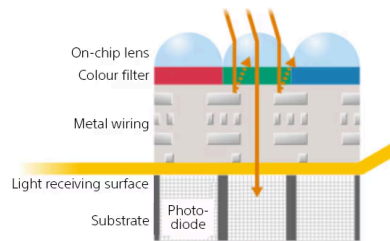
4K Super 35

Super35 17:9 mode with PXW-FS7M2.



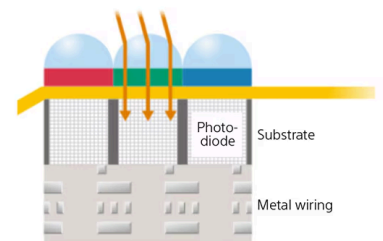
6K full-frame

Full-frame 17:9 mode with PXW-FX9.



"Exmor" CMOS sensor

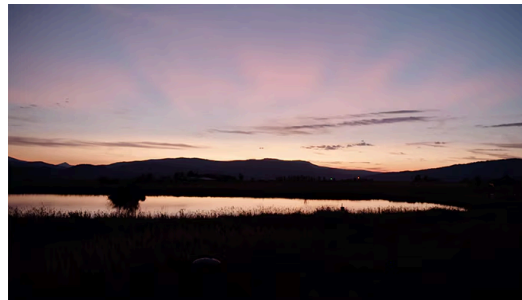
Conventional front-illuminated sensor as used in FS7 II



"Exmor R" CMOS sensor

Back-illuminated sensor as used in FX9

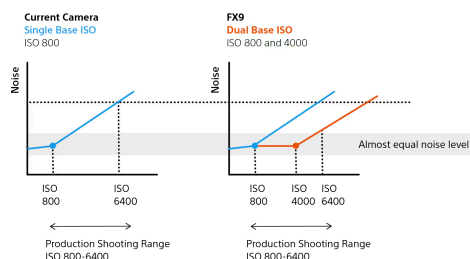
Phenomenal 15+ stops dynamic range for limitless expression



FX9 offers an exceptional 15+ stops of dynamic range—allowing for unprecedented creative freedom in color grading and post. Camera operators can concentrate on framing the scene they want while relying upon the FX9 to capture every nuance and detail using either 4K 4:2:2 10-bit internal recording or 16-bit RAW external recording.* In grading, colorists can find color and detail beyond the normal viewing abilities of the camera operator to create a final image that exactly portrays the mood of the scene.

**RAW recording requires Ver.2.0 or higher firmware, XDCA-FX9 and external recorder.*

Dual Base ISO for stunning images in any light



Digital imaging sensors perform best at their base ISO as no unnecessary gain (voltage) is added to the sensor's output. While a typical camera has a single base ISO, carefully chosen to provide the optimum settings for a wide range of shooting scenarios, the FX9's dual ISO function offers far greater flexibility. Its low base sensitivity of ISO 800* is similar to most other digital cinema cameras offering an excellent balance between dynamic range and sensitivity for most normal types of production. The FX9 with its secondary High Base ISO of 4000* excels in low-light conditions without adding extra gain. Low-light scenes can be shot using High Base and 4000 ISO with near identical image quality to Low Base and 800 ISO. Combining Dual Base ISO with the camera's electronic variable ND Filter provides superb creative control in almost any shooting environment, with truly next-generation responsiveness to changing conditions.

**ISO 800 and ISO 4000 are used in S-Log3, Cine EI mode.*

[Discover Dual Base ISO & full-frame >](#)

Cinematic color science with S-Cinetone™



S-Cinetone is the default look of FX9 that's tuned to meet the requirements of today's content creators with rich mid-range colors, alluring facial tones and a softer tonal look — developed with the same expertise as Sony's world-leading VENICE digital cinematography camera. S-Cinetone means your content looks fresh and vivid straight out of the camera, with subjects that really stand out while retaining plenty of latitude in post-production thanks to the high-performance full-frame image sensor.

[Download S-Cinetone White Paper >](#)

Accelerate your workflow with User 3D Luts and HLG*



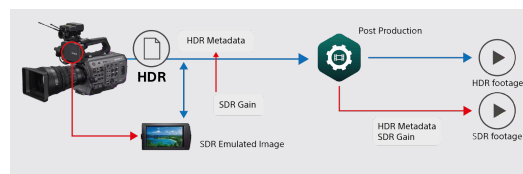
User Created 3D LUTs make it easy to customize FX9's look to your preferences. It is possible to import LUTs files from an SD card and store up to 16 files on the FX9's internal memory and switch between them as needed. This is particularly useful for shooting in S-Log3, allowing you to preview on camera whatever custom look you create.

FX9 can record HDR using S-Log3 or Hybrid Log Gamma (HLG).*

- S-Log3 is optimized for premium applications, capturing the maximum dynamic range from a sensor and providing ultimate creative freedom when color grading
- HLG* delivers content quickly without additional color grading, making it an ideal choice for day-to-day shooting, viewing, and editing workflows

**Ver.2.0 or higher firmware required*

HDR/SDR dual production support*

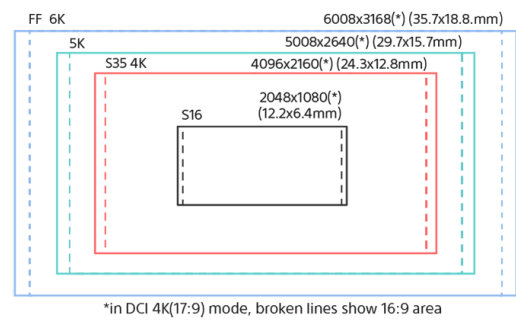


When shooting HDR content, the FX9's EVF is easily switched between HDR and SDR emulation modes. In addition, if you adjust the brightness of the image when in SDR emulation, the SDR gain dB is recorded into metadata so it can be used in post-production for the SDR content. Together these changes make it easier to shoot in HDR while also achieving a quick turnaround for SDR content.

**Requires firmware V3.0 or higher.*

[Download SDR Preview for HDR: Quick Start Guide >](#)

Selectable frame rates for full-frame, Super 35 and Super 16



Choose your desired frame rate from 1fps up to 180fps* for impressive quick- and slow-motion footage. FX9 creates an immersive image with a wide-angle look and shallower depth of field provided by its full-frame sensor in combination with quick and slow motion. Engage your audience with this new creative look. FX9 also offers a Quality priority setting** that maximizes full HD image quality using full-frame 6K scan mode or Super 35 4K scan mode with advanced oversampling technology. With Ver.3 firmware, FX9 also supports Super 16 scan mode*** and enables B4 lens control (requires optional LA-EB1 and XDCA-FX9 for lens DC supply) with ALAC**** (Auto Lens Aberration Compensation). Imager scan area can be switched with Assign button that works like a digital extender.

Super 35 2K imager scan mode prioritizes frame rates, so image quality may be reduced depending on the shooting environment. In this instance, the settings below are recommended.

- Cine EI mode: Set EI gain lower and exposure level higher instead
- Custom/SDR mode: Choose the gamma category setting of Original (S-Cinetone) or STD (STD1 to 6)

**Up to 120fps with Ver1.0. Full-HD 180fps requires Ver.2.0 or higher firmware.*
***In full-frame scanning mode: selectable at 1–30fps/In super 35 scanning mode: selectable at 1–60fps. Quality priority setting is recommended if desired frame rate is available.*
****Requires V3 or higher, AF performance at S16 2K mode is not same as other imager mode*
*****Lens should support ALAC function.*

Internal Recording

Imager Scan Mode	Recording Resolution	1-30p	31-60p	100,120p	150,180p
Full-frame	DCI 4K 4096x2160	√ ¹	√ ²	-	-
Full-frame	QFHD 3840 x 2160	√	√ ²	-	-
Full-frame	Full HD 1920 x 1080	√	√	√	√ ¹
Super 35	DCI 4K 4096x2160	√ ¹	√ ¹	-	-
Super 35	QFHD 3840 x 2160	√	√	-	-
Super 35	Full HD 1920 x 1080	√	√	√	-
Super 16	Full HD 1920 x 1080	√ ³	√ ³	√ ³	√ ³

¹ Requires Ver.2.0 firmware or higher.

² Requires Ver.2.0 firmware or higher. Scanning area is cropped around 83% of full-frame and 122% larger than S35. (diagonal)

³ Requires Ver.3.0 firmware or higher.

16-bit RAW
capability*



16-bit RAW offers a phenomenal increase in post-production creative freedom to fully exploit FX9's exceptional 15+ stops of dynamic range. FX9 supports export of 16-bit RAW at either 4K or 2K resolution using the optional XDCA-FX9 extension unit with a single BNC cable connection to compatible external RAW recorders.**

*RAW output will be enabled with Ver.2.0 or higher firmware.

**Compatible recorders to be announced by 3rd party.

RAW output using
XDCA-FX9

Imager Scan Mode	Output Resolution	1-30p	31-60p	100,120p	150,180p
Full-frame	DCI 4K 4096x2160	✓	✓ ¹	-	-
Full-frame	DCI 2K 2048x1080	✓	✓	✓	✓
Super 35	DCI 4K 4096x2160	✓	✓	-	-
Super 35	QFHD 3840x2160	✓ ³	✓ ³	✓ ^{2 3}	-
Super 35	DCI 2K 2048x1080	✓	✓	✓	-
Super 16	DCI 2K 2048x1080	✓ ⁴	✓ ⁴	✓ ⁴	✓ ⁴

¹ Scanning area is cropped around 83% of full-frame and 122% larger than S35. (diagonal)

² Limited to 10-bit during 100, 120fps high frame rate shooting.

³ This requires Ver.2.1 firmware or higher.

⁴ Requires Ver.3.0 firmware or higher.

Capture the action
with enhanced Fast
Hybrid AF



Effortlessly track fast-moving subjects with pin-sharp focus, even when using wide-lens aperture settings to maintain a shallow depth of field with the camera's full-frame sensor. Developed by Sony's α camera engineers, enhanced Fast Hybrid AF combines phase detection AF for fast, accurate subject tracking with contrast AF for exceptional focus accuracy. In addition, Face Detection intelligently recognizes and locks on to human faces.

The dedicated 561-point phase detection AF sensor covers approximately 94% of the whole image area width and 96% of height, allowing consistently accurate, responsive AF tracking, even with fast-moving subjects.

Eye AF and Real-time Tracking*



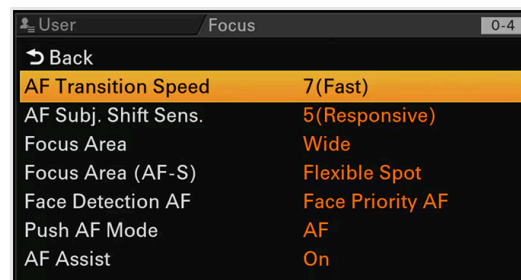
FX9 is the world's first professional camcorder with Sony's world-leading eye-tracking technology.** High-speed, high-precision image processing maintains a pin-sharp focus. During an interview or portraiture shoot, you can rely upon Eye AF to capture your subject's most subtle expressions while you concentrate on the interview and framing. Simply turn on Face or Eye AF priority for seamless AI-based tracking.

Using Real-time Tracking, you can simply touch a subject on the viewfinder, or select a face with FX9 joystick, and the camera will track and maintain focus automatically.

**Eye AF requires Ver.2.0 or higher firmware. Real-time Tracking requires Ver.3.0 or higher firmware.*

***As of Apr 2020.*

Customizable AF settings



The FX9's comprehensive autofocus settings provide the creative flexibility to integrate with any project.

7-level AF transition speeds from Fast—switching between subjects as quickly as possible—to Slow, where speed is reduced to fit a more measured shooting style, such as a historical TV drama.

5-level AF subject-shift sensitivity ranges from Locked-on—ignoring other moving subjects in the frame—to Responsive, which switches focus from one subject to another, ideal for snapping between race cars as they speed by.

Autofocus with Sony E-mount lenses



Experience smooth, responsive autofocus with every Sony [E-mount lens](#), including Sony's Cinema Lens [FE C 16–35 mm T3.1 G](#) with premium optical performance and operability for demanding cinematography applications. Advanced E-mount lever-lock operation allows quick, easy lens exchange in the field, plus added stability and security with large lenses.

[View FX9-compatible lenses from Sony >](#)

**Image shows E-mount lens line-up as of September 2019.*

The world's first electronic variable ND filter for full-frame sensors*



Realize even greater creative control with Sony's unique built-in [electronic variable neutral density \(ND\) filter](#)—a world first* for professional full-frame camcorders. Set to Auto, or adjust filter density manually in smooth increments from 1/4 to 1/128 as you shoot, for perfectly exposed images without affecting depth of field as lighting conditions change. Use higher-density settings with a slower shutter speed for breathtaking artistic effects.

**As of September 2019*

Proven ergonomics & accessory compatibility



FX9 chassis is the latest refinement of the revolutionary FS7 design, so you can be sure it will feel great to shoot with from almost any position, while also offering compatibility with a large proportion of the countless FS7 accessories, including U-series batteries, chargers, E-mount lenses, plus arms and lens adapters.*

The control arm is easily adjusted without tools, so FX9 adapts effortlessly to your physique and preferred shooting style—handheld, at waist level, or shoulder-mounted. The smart grip also features an updated design, more compact than before while still holding all the key shooting controls, allowing you to concentrate on the scene without distractions. The FX9 also introduces a micro USB interface for improved responsiveness and support for a wrist strap.

To withstand the rigors of real-world shooting, FX9 has a robust magnesium chassis which is almost one third lighter than aluminum equivalent, while offering high impact resistance. FX9's buttons, dials, and other parts are sealed to prevent dust and water spray from entering for even greater operational reliability.**

**BP-U30 and XDCA-FS7 are not compatible with the FX9.*

***Dust- and water-resistance does not guarantee that damage will not occur if this camera is subjected to direct contact with dust and water.*

Quick menu control with touch operation*



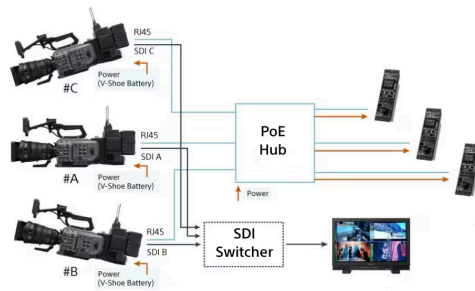
The FX9's LCD Viewfinder has a quick access control menu for commonly accessed features. With a single touch, you can press to change key settings including:

- Codec, Imager Scan mode, Picture Size and frequency.
- Base ISO/Sensitivity
- Shooting Mode
- Audio Levels

Introduced with V2 firmware, the FX9's quick access control menu uses a similar UI to Sony's acclaimed VENICE digital cinematography camera.

**Requires Ver.2.0 or higher firmware.*

4K Multi-Camera Remote Operation

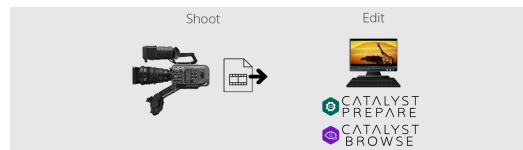


PXW-FX9 supports S700 Protocol over Ethernet* for simple, easy-to-operate multi-camera operation for local events and TV studio production. The optional XDCA-FX9 Extension Unit with RJ45 jack can take S700 Protocol control via Ethernet from a single RCP** unit or you can control multiple FX9s with a PoE hub using one RCP per FX9. A/V output over SDI can be routed via a standard SDI switcher and a monitor such as the PVM-X2400 can display up to four HD inputs simultaneously.

**V3 or higher firmware required.*

***Availability depends on region.*

Stable, shake-free handheld footage



Advanced image stabilization information means even handheld footage can be transformed with Sony [Catalyst Browse/Catalyst Prepare](#) software* in post-production to look as smooth as if it were shot with a gimbal. Unlike in-camera or lens stabilization, metadata combining FX9's built-in gyro and lens information allows you to creatively choose the balance between the level of shake-compensation and the resolution of trimmed 4K imagery. This feature requires Sony E-mount lens and allows for far faster processing than conventional NLE stabilization workflows.**

**Catalyst Browse/Catalyst Prepare Version 2019.2 or higher is required.*

***Resolution and angle of view reduced compared to native footage. Lens optical image stabilization should be set to 'OFF' during shooting.*

Beautifully matched shooting partners



Optimized for professional cinematography applications, the light and compact SELP28135G-powered zoom lens is an ideal complement for the full-frame imaging possibilities of the FX9.

- Circular aperture with full-frame image circle format
- Motorized servo zoom for smooth, precise zoom moves
- Three independent rings for focus, zoom and iris with smooth, silent drive

You have the choice of purchasing the FX9 on its own (PXW-FX9) or with the SELP28135G lens (PXW-FX9K).



Adds shoulder-style operation, advanced networking

Further extend the capabilities of the FX9 with the optional XDCA-FX9 extension unit that optimizes camera weight distribution and ergonomics for comfortable shoulder-style shooting—ideal for ENG (Electronic News Gathering) and documentary applications. The extension unit also adds advanced networking for streaming/file transfers and timecode for multi-camera shoots.



4-channel audio input and recording

The FX9 offers superb audio capabilities with independent control dials for each channel. In applications such as interviews, 4-channel audio recording enables simultaneous use of an external microphone for recording ambient sounds, a built-in microphone for voice memos by the operator, and two optional UWP Series wireless microphones to capture the voices of interviewer and interviewee. In addition, using the optional XLR-K3M, XLR-K2M or XLR-K1M XLR adapter—with two extra XLR inputs—allows even more devices to be connected.



Multi-Interface (MI) Shoe

Sony's flexible Multi-Interface (MI) Shoe provides power, signal connections, and coordinated on/off switching with compatible Sony accessories. For example, you can connect and control Sony [UWP-D](#) wireless microphone systems (optional).

Networked for high mobility



The FX9 features internal 5 GHz* and 2.4 GHz Wi-Fi capability as standard. Just switch on and log on to your preferred network to enable a host of advanced wireless production features:

- Content Browser Mobile™** allows the PXW-FX9 to be controlled remotely from a smartphone or tablet computer via a Wi-Fi connection. Adjust the exposure level, zoom, Record/Stop and more via your mobile device—it's ideal for single-operator shoots. One-touch authentication is also possible with smartphones offering NFC connectivity
- FTP Transfer allows content files to be sent over the Internet for remote storage on an FTP server even while shooting. In case of signal interruption, the system will automatically resume as soon as connection is restored
- Trimming allows you to set start and end points in a clip, eliminating time-wasting transfers of unneeded content
- [C3 Portal***](#) can upload high-res and proxy footage to the cloud from multiple camera operators in the field, so editing can start immediately. Uploaded content can be accessed securely from any location. Production teams can even start logging clips while shooting is still going on, saving even more valuable time when a story's breaking



- Wired LAN port with optional XDCA-FX9 allows connection of the FX9 to the Internet with a standard Ethernet cable, allowing files to be streamed or transferred by FTP
- Dual Link Cellular is enabled with the optional XDCA-FX9 and uses two cellular networks in combination to provide an even more reliable network connection. The FX9 is compatible with standard USB cellular dongles from most networks. (Please check for the most appropriate service provider for your region. Standard network fees will apply.)
- High-quality Sony QoS Streaming to Network RX Station (optional) and [C3 Portal***](#) by Sony allows images to be streamed live for viewing at a remote location

**5-GHz support dependent on country/regional regulation. Only PXW-FX9V/9VK support 5 GHz.*

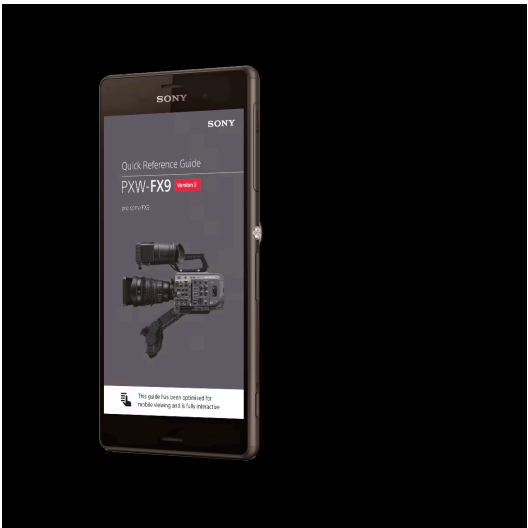
***Content Browser Mobile™ application can be downloaded from the [Google Play Store](#) or [App Store](#). Wi-Fi operation cannot be guaranteed with all smartphones and tablet computers.*

****Requires Ver.3.0 or higher firmware. C3 Portal is available in specific countries.*

Gallery



FX9 Quick
Reference Guide -
V3



Written by Alister Chapman and covering everything from camera set-up to slow-motion frame rates and S-Cinetone tips. Interactive PDF format ensures easy access on your smartphone when on-location. Now updated for V3 firmware with Real-time tracking, RCP remote control, S16 mode and more.

** Available in English only*

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Specifications

General	
	Important Note: FX9 is available from Sony as four SKUs. PXW-FX9V (without lens) and PXW-FX9VK (with lens) support both 5 Ghz and 2.4 Ghz Wi-Fi. PXW-FX9T (without lens) and PXW-FX9TK (with lens) support 2.4 GHz Wi-Fi. Availability is determined by country/regional regulations.
Mass	Approx 4.41 lb (body only) Approx. 10.58 lb (with Viewfinder, Eyepiece, Grip Remote Control, BP-U35 battery, SELP28135G LENS, an XQD memory card, handle, mic holder)
Dimensions (W x H x D)	5.75 × 5.61 × 9.02 in (body without protrusions)
Power Requirements	DC 19.5V
Power Consumption	Approx. 35.2 W (while recording XAVC-I QFHD 59.94p, SELP28135G Lens, Viewfinder ON, not using external device)
Operating Temperature	0°C to 40°C 32°F to 104°F
Storage Temperature	-20°C to +60°C -4°F to +140°F

Battery Operating Time	Approx. 54 min. with BP-U35 battery (while recording XAVC-I QFHD 59.94p, SELP28135G Lens, Viewfinder ON, not using external device)
	Approx. 108 min. with BP-U70 battery (while recording XAVC-I QFHD 59.94p, SELP28135G Lens, Viewfinder ON, not using external device)
Recording Format (Video) [XAVC Intra]	XAVC-I DCI4K 59.94p mode: VBR, MAX bit rate 600 Mbps, MPEG-4 AVC/H.264
	XAVC-I DCI4K 50p mode: VBR, MAX bit rate 500 Mbps, MPEG-4 AVC/H.264
	XAVC-I DCI4K 29.97p mode: VBR, MAX bit rate 300 Mbps, MPEG-4 AVC/H.264
	XAVC-I DCI4K 25p mode: VBR, MAX bit rate 250 Mbps, MPEG-4 AVC/H.264
	XAVC-I DCI4K 24p mode: VBR, MAX bit rate 240 Mbps, MPEG-4 AVC/H.264
	XAVC-I DCI4K 23.98p mode: VBR, MAX bit rate 240 Mbps, MPEG-4 AVC/H.264
	XAVC-I QFHD 59.94p mode: VBR, MAX bit rate 600 MBps, MPEG-4 AVC/H.264
	XAVC-I QFHD 50p mode: VBR, MAX bit rate 500 MBps, MPEG-4 AVC/H.264
	XAVC-I QFHD 29.97p mode: VBR, MAX bit rate 300 MBps, MPEG-4 AVC/H.264
	XAVC-I QFHD 25p mode: VBR, MAX bit rate 250 MBps, MPEG-4 AVC/H.264
	XAVC-I QFHD 23.98p mode: VBR, MAX bit rate 240 MBps, MPEG-4 AVC/H.264
	XAVC-I HD 59.94p mode: CBG, MAX bit rate 222 MBps, MPEG-4 AVC/H.264
	XAVC-I HD 50p mode: CBG, MAX bit rate 223 MBps, MPEG-4 AVC/H.264
	XAVC-I HD 59.94i/29.97p mode: CBG, MAX bit rate 111 MBps, MPEG-4 AVC/H.264
	XAVC-I HD 50i/25p mode: CBG, MAX bit rate 112MBps, MPEG-4 AVC/H.264
	XAVC-I HD 23.98p mode: CBG, MAX bit rate 89MBps, MPEG-4 AVC/H.264
Recording Format (Video) [XAVC Long]	XAVC-L QFHD 29.97p/25p/23.98p mode: VBR, MAX bit rate 100 MBps, MPEG-4 H.264/AVC

	XAVC-L QFHD 59.94p/50p mode: VBR, MAX bit rate 150 MBps, MPEG-4 H.264/AVC
	XAVC-L HD 59.94i/29.97p/50i/25p/23.98p/59.94p/50p mode: VBR, MAX bit rate 50 MBps, MPEG-4 H.264/AVC
	XAVC-L HD 59.94i/29.97p/50i/25p/23.98p/59.94p/50p mode: VBR, MAX bit rate 35 MBps, MPEG-4 H.264/AVC
	XAVC-L HD 59.94i/50i mode: VBR, MAX bit rate 25 MBps, MPEG-4 H.264/AVC
Recording Format (Video) [MPEG-2 Long GOP]	MPEG2 HD422 mode: CBR, MAX bit rate 50 MBps, MPEG-2 422P@HL
Recording Format (Audio)	LPCM 24 bits, 48 kHz, 4 channels
Recording Frame Rate	[XAVC Intra] XAVC-I DCI4K mode: 4096 x 2160/59.94P, 50P, 29.97P, 23.98P, 25P, 24P XAVC-I QFHD mode: 3840 x 2160/59.94P, 50P, 29.97P, 23.98P, 25P XAVC-I HD mode: 1920 x 1080/59.94P, 59.94i, 50P, 50i, 29.97P, 23.98P, 25P [XAVC Long] XAVC-L QFHD mode: 3840 x 2160/59.94P, 50P, 29.97P, 23.98P, 25P XAVC-L HD 50 mode: 1920 x 1080/59.94P, 50P, 59.94i, 50i, 29.97P, 23.98P, 25P XAVC-L HD 35 mode: 1920 x 1080/59.94P, 50P, 59.94i, 50i, 29.97P, 23.98P, 25P XAVC-L HD 25 mode: 1920 x 1080/59.94i, 50i [MPEG-2 Long GOP] MPEG HD422 mode: 1920 x 1080/59.94i, 50i, 29.97P, 23.98P, 25P
Recording/playback Time [XAVC Intra]	XAVC-I DCI4K/QFHD 59.94p When using QD-G128A (128 GB): Approx. 22 minutes When using QD-G64A (64 GB): Approx. 10 minutes
	XAVC-I DCI4K/QFHD 50p When using QD-G128A (128 GB): Approx. 26 minutes When using QD-G64A (64 GB): Approx. 13 minutes
	XAVC-I DCI4K/QFHD 29.97p When using QD-G128A (128 GB): Approx. 43 minutes When using QD-G64A (64 GB): Approx. 21 minutes

	XAVC-I DCI4K/QFHD 25p When using QD-G128A (128 GB): Approx. 52 minutes When using QD-G64A (64 GB): Approx. 25 minutes
	XAVC-I DCI4K 24p When using QD-G128A (128 GB): Approx. 54 minutes When using QD-G64A (64 GB): Approx. 26 Minutes
	XAVC-I DCI4K/QFHD 23.98p When using QD-G128A (128 GB): Approx. 54 minutes When using QD-G64A (64 GB): Approx. 26 Minutes
	XAVC-I HD 59.94p When using QD-G128A (128 GB): Approx. 57 minutes When using QD-G64A (64 GB): Approx. 28 Minutes
	XAVC-I HD 50p When using QD-G128A (128 GB): Approx. 57 minutes When using QD-G64A (64 GB): Approx. 27 minutes
	XAVC-I HD 59.94i/29.97p When using QD-G128A (128 GB): Approx. 105 minutes When using QD-G64A (64 GB): Approx. 53 minutes
	XAVC-I HD 50i/25p When using QD-G128A (128 GB): Approx. 105 minutes When using QD-G64A (64 GB): Approx. 53 minutes
	XAVC-I HD 23.98p When using QD-G128A (128 GB): Approx. 130 minutes When using QD-G64A (64 GB): Approx. 65 minutes
Recording/playback Time [XAVC Long]	XAVC-L QFHD 29.97p/25p/23.98p When using QD-G128A (128 GB): Approx. 125 minutes When using QD-G64A (64 GB): Approx. 62 minutes

General

	XAVC-L QFHD 59.94p/50p When using QD-G128A (128 GB): Approx. 86 minutes When using QD-G64A (64 GB): Approx. 42 minutes
	XAVC-L HD 50 59.94i/29.97p/50i/25p/23.98p/59.94p/50p When using QD-G128A (128 GB): Approx. 225 minutes When using QD-G64A (64 GB): Approx. 110 Minutes
	XAVC-L HD 35 59.94i/29.97p/50i/25p/23.98p/59.94p/50p When using QD-G128A (128 GB): Approx. 305 minutes When using QD-G64A (64 GB): Approx. 150 minutes
	XAVC-L HD 25 59.94i/50i When using QD-G128A (128 GB): Approx. 410 minutes When using QD-G64A (64 GB) approx. 200 minutes
Recording/playback Time [MPEG-2 Long GOP]	MPEG HD422 59.94i, 50i, 29.97P, 23.98P, 25P When using QD-G128A (128 GB): Approx. 220 minutes When using QD-G64A (64 GB): Approx. 105 minutes
Recording Format (Proxy Audio)	XAVC Proxy: AAC-LC, 128 kbps, 2 channels
Recording Format (Proxy Video)	XAVC Proxy: AVC/H.264 Main Profile 4:2:0 Long GOP, VBR 1920 × 1080, 9 MBps 1280 × 720, 9 MBps 1280 × 720, 6 MBps 640 × 360, 3 MBps

Lens

Lens Mount	E-mount
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Camera Section

Imaging Device (Type)	1.38 in full-frame, single-chip CMOS image sensor
Imaging Device (Pixel Count)	20.5 M pixels (total)
Built-in Optical Filters	Clear, linear variable ND (1/4ND to 1/128ND)
ISO Sensitivity	ISO 800/4000 (Cine EI mode, D55 light source)

Camera Section

S/N Ratio	57 dB (Y) (typical)
Shutter Speed	64F to 1/8000 sec
Slow and Quick Motion Function	FF 6K mode: XAVC-I/L 4096 x 2160 1 to 30 frames (29.97/25/24/23.98) 3840 x 2160, 1920 x 1080 1 to 30 frames (29.97/25/23.98) FFc 5K, S35 4K mode: XAVC-I/L 4096 x 2160 1 to 60 frames (59.94p, 50p, 29.97/25/24/23.98) 3840 x 2160, 1920 x 1080 1 to 60 frames (59.94p, 50p, 29.97/25/23.98)
	FF 2K, S16 2K mode: XAVC-I 1920 x 1080 1 to 60, 100, 120, 150, 180 frames (59.94p, 29.97/23.98) 1 to 60, 100, 120, 150 frames (50p, 25) FF 2K, S16 2K mode: XAVC-L 1920 x 1080 1 to 60, 100, 120 frames (59.94p, 50p, 29.97/25/23.98) S35 2K mode: XAVC-I/L 1920 x 1080 1 to 60, 100, 120 frames (59.94p, 50p, 29.97/25/23.98)
White Balance	Preset, Memory A, Memory B (2000K-15000K)/ATW
Gain	-3 to 27 dB (every 1 dB), AGC
Gamma Curve	SDR mode: S-Cinetone, STD1, STD2, STD3, STD4, STD5, STD6, HG1, HG2, HG3, HG4, HG7, HG8, S-Log3 HDR mode: HLG (Natural/Live)
Latitude	15+ stop

Input/Output

Genlock Input/REF Output	BNC, Genlock IN/REF OUT Switchable
TC Input/TC Output	BNC, TC IN/OUT Switchable

Input/Output

Audio Input	XLR-type 3-pin (female) (×2), line/mic/mic +48 V selectable Mic reference: -30 to -80 dBu
SDI Output	SDI OUT1: BNC, 12G-SDI, 3G-SDI (Level A/B), HD-SDI SDI OUT2: BNC, 3G-SDI (Level A/B), HD-SDI
USB	USB device, micro-B (×1)
Headphone Output	Stereo mini jack (×1) -16 dBu 16 Ω
Speaker Output	Monaural
DC Input	DC jack
Remote	Stereo mini-minijack (Φ2.5 mm)
HDMI Output	Type A (×1)

Monitoring

LCD	3.46 in (3.5 type) approx. 2.76 M dots
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Built-in Microphone

Built-in Microphone	Omni-directional monaural electret condenser microphone
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Media

Type	XQD card slot (×2) SD/MS card slot (×1) for saving configuration data SD card slot also can be used for proxy video recording
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Wi-Fi/NFC

Supported Format	IEEE 802.11 a/b/g/n/ac
Frequency Band	2.4 GHz bandwidth 5.2/5.3/5.6/5.8 GHz bandwidth* *Depending on country/regional regulation and only on PXW-FX9V and PXW-FX9VK.
Security	WEP/WPA-PSK/WPA2-PSK
NFC	NFC Forum Type 3 Tag compliant

Supplied Accessories

Supplied Accessories	Body Cap (1)
	Viewfinder (1)
	Eyepiece (1)
	Grip Remote Control (1)
	IS1293 Power Cord (2) **
	AC Adapter
	BC-U1A Battery Charger (1)
	BP-U35 Battery Pack (1)
	Power Cord (2)
	USB Cable (1)
	Operating Guide (2)
	CD-ROM "Manuals for Solid State Memory Camcorder" (1)

** For India only. Not supplied in other countries/regions

Resources and downloads

Brochures

[Brochures: Cinema Line Comparison Chart](#)

[Brochures: SDR Preview for HDR - Quick Start Guide](#)

[Brochure: PXW-FX9 RCP Command List](#)

Knowledge

[Knowledge: S-Cinetone White Paper Version 1](#)

[Knowledge: Blockbuster LUT Downloads](#)

Accessories



BP-U35

Lithium-ion battery 35 Wh



BP-U70

Lithium-ion battery 72 Wh



SELC1635G

FE C 16–35 mm T3.1 G Cinema Lens Series full-frame wide-angle zoom with advanced optical performance, operability and intelligent shooting functions



BP-U100

Lithium ion battery 97 Wh



XQD G Series Memory Card

32 GB, 64 GB, 120 GB, 128 GB, 240 GB, and 256 GB XQD Series memory cards for 4K recording.



ECM-674

Affordable shotgun Electret condenser microphone



ECM-673

Short Shotgun Electret Condenser Microphone.



ECM-MS2

Compact Electret condenser microphone



ECM-678

Shotgun Electret condenser microphone



UWP-D21

UWP-D bodypack wireless microphone package



UWP-D22

UWP-D handheld wireless microphone package



UWP-D26

UWP-D bodypack transmitter and XLR plug-on wireless microphone transmitter package



SMAD-P5

Multi Interface Shoe



SMAD-P3D

Multi Interface Shoe (MI Shoe) adaptor for URX-P03D (Dual Channel)



URX-S03D

UWP-D two-channel slot-in receiver



PWS-110RX1A

Network RX Station



RCP-3100

Joystick-type remote control panel for HDC/HSC/HXC series cameras.
5 units in 19-inch EIA rack.



RCP-3500

Remote-control panel for HDC/HSC/HXC series cameras



RCP-3501

Remote-control panel for HDC/HSC/HXC series cameras



RM-30BP

Remote Commander



URX-P41D

UWP-D two-channel portable wireless audio receiver with high-quality sound



UWP-D27

UWP-D complete wireless audio package with seamless Sony cameras integration.



ECM-778

Shotgun Electret condenser microphone



PWA-RX1

Network RX Station Application



Discontinued

XDCA-FX9

Extension Unit for FX9 camera



Discontinued

LA-EB1

B4 lens mount adaptor for FX9, FS7 and FS7II



Discontinued

VCT-FS7

Lightweight 15mm rods and adjustable shoulder pad for PXW-FS7



Discontinued

RCP-1500

Joystick type of Remote Control Panel for HDC/HSC/HXC series cameras. 4 units in 19-inch EIA rack.



Discontinued

RCP-1501

Dial type of Remote Control Panel for HDC/HSC/HXC series cameras. 4 units in 19-inch EIA rack.



Discontinued

RCP-1530

Joystick type of Remote control panel for HDC/HSC/HXC series cameras. 5 units in 19-inch EIA rack.

PXW-FX9 Full Frame Camcorder - Sony Pro

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