SONY

PXW-X200 Solid-State Memory Camcorder

The PXW-X200 is a high-quality handy camcorder with three 1/2 inch-type Full HD Exmor[™] CMOS sensors. With these newly developed image sensors, high sensitivity and low noise have been achieved. Independent focus, zoom, and iris rings enable precise shooting in many circumstances. With its high-quality XAVC recording capability, the PXW-X200 helps to boost user creativity in many different applications, including news gathering and documentary production.

XDCVW

SON

Added to this, the PXW-X200 has a built-in wireless operation capability, and also offers remote control, file transfer, monitoring via smartphones and tablet devices, and streaming^{*1}.

*1 Streaming function requires firmware upgrade.



CAMERA FEATURES

New 1/2 inch-type 3CMOS Image Sensors

The PXW-X200 incorporates three ½ inch-type Exmor Full HD (1920x1080) CMOS sensors to achieve high resolution, high sensitivity, low noise, and a wide dynamic range. With these image sensors, the PXW-X200 achieves a high sensitivity of F12 at 1080/59.94i and F13 at 1080/50i – essential levels for professionals shooting under challenging lighting conditions.

New 1/2 inch-type 17x Zoom Lens

The PXW-X200 has a newly developed 17 times zoom lens. This compact body lens can zoom from 29.3 mm to 499 mm (35 mm equivalent), which is a powerful capability for event shooting and many other applications. The lens also has focus, zoom, and iris-independent manual control rings. Each function has a physical end stop and absolute marking which enable precise adjustment.



3.5 inch-type QHD (960x540) Color LCD Panel

The PXW-X200 is equipped with a large, easy-to-read, 3.5 inchtype QHD color LCD panel which helps to achieve precise focus control. This LCD panel also displays a range of information in support of shooting operations.



Slow & Quick Motion

A Slow & Quick Motion function is available on the PXW-X200. The recording frame rate can be selected from 1 frame per second (fps) up to 60 fps both in 1080P and 720P format to create high-quality slow motion or quick motion images. *²

WIRELESS FEATURES

File Transfer and Streaming

Users can simply attach the supplied Wireless LAN module to activate the wireless function on the PXW-X200. And by connecting with separately sold internet routers, proxy or highresolution files can be transferred to a cloud server, and the editing process can be started while location shooting continues.

The PXW-X200 also has a streaming capability^{*3}. By attaching a separately sold LTE USB module^{*4}, live video and audio can be streamed, watched, and recorded at a remote location.

*3 A firmware version upgrade is required to activate this function (early 2015).

*4 This function works only with compatible modules.



NFC

A Near Field Communication (NFC*⁵) function allows easy, one-touch wireless LAN connection to a smartphone or tablet device without manual setting of the network parameters. A Content Browser Mobile*⁶ application enables users to monitor the currently shot video and to wirelessly control camcorder settings such as focus, zoom, iris, white balance, REC START/STOP, and more.

- *5 NFC allows close-range wireless communication between the PXW-X200 and an NFC-equipped smartphone or tablet device.
- *6 This application can be downloaded from the Google Play Store or App Store.



RECORDING FEATURES

Multi-format Recording

The PXW-X200 has an XAVC recording capability. It uses 4:2:2 10-bit sampling, efficiently compressing Full HD (1920x1080) resolution images using the MPEG-4 AVC/H.264 CODEC. In XAVC, the user can select intra-frame compression at a maximum of 112 Mbps or high-efficiency long GOP compression at 50/35/25 Mbps.

In addition to XAVC intra/long GOP, the PXW-X200 records in MPEG-2 HD422 at 50 Mbps, MPEG-2 HD420 at 35/25 Mbps, MPEG IMX at 50 Mbps and DV at 25 Mbps. Depending on requirements, there is a flexible choice of CODEC. In XAVC long CODEC, 1080/59.94P or 50P can be selected as well as 1080/59.94i, 50i, etc.

Four channels of 24-bit 48 kHz LPCM audio is recorded in XAVC and MPEG-2 HD422, while four channels of 16-bit 48 kHz LPCM is recorded in MPEG-2 HD420.

Flexible Choice of Recording Media

The PXW-X200 uses high-speed and reliable SxS PRO+, SxS PRO, and SxS-1 memory cards for its recording media, developed specifically for professional video creation applications. These SxS memory cards boast high-speed data transfer, which accelerates the video production workflow. By combining the PXW-X200 with SxS memory cards, users can access a salvage function to restore content*⁷, even if a file is damaged by power loss or memory card disconnection during recording.

Furthermore, XQD cards, Memory Sticks^{*8}, and SDHC cards^{*8} can be used with appropriate card adaptors.

*7 There is no warranty for content restoration.

*8 Operation with all memory cards is not assured.

Simultaneous Recording*?

The PXW-X200 is equipped with two SxS memory card slots. With two memory cards, when the user activates the Simultaneous Recording function, content is recorded onto two memory cards simultaneously, and backup copies of the memory cards can be automatically created.

*9 A firmware version upgrade is required to activate this function (early 2015).



Cache Recording

Once activated, the PXW-X200 continuously streams audio and video into its internal memory. When the REC START/STOP button is pressed, content buffered in the camcorder's memory is recorded onto the memory card at the start of the recording clip. The caching period can be set at up to 15 seconds. This function is useful when shooting a developing situation such as during news gathering, so as not to miss a critical moment.

Continuous Recording

By activating the Continuous Recording function, multiple clips can be recorded as a single clip, which makes it easy to ingest the file to a non-linear editing (NLE) system.

INTERFACES

SDI, HDMI, and i.LINK

The SDI interface allows the PXW-X200 to interface with other professional products. The SDI connector is 3G, HD, and SD switchable and it outputs 1080/59.94P, 50P, 59.94i, 50i, 720/59.94P, 50P, or SD signals. The PXW-X200 has a simple signal conversion function, and

an 1080/59.94i (50i) signal can be output for monitoring while the camcorder is set to 1080/59.94P (50P). The PXW-X200 can also be connected via HDMI to HD displays to perform monitoring. The i.LINK connector can be used for HDV when SP 1440 (FAT) mode is selected and for DV when DVCAM (FAT) mode is selected.



Timecode & Genlock

The PXW-X200 is equipped with timecode input/output (selectable) and genlock input interfaces. These interfaces are useful when shooting with multiple camcorders. The video signal timing and the timecode can be synchronized among the camcorders, and this helps when assembling video clips from multiple camcorders in the editing process.

Multi-interface (MI) Shoe*10

An accessory attached to the multi-interface (MI) shoe can be controlled by the PXW-X200 if the optional LCD video light, HVL-LBPC, or the optional wireless microphone system, UWP-D series, is attached to the MI shoe. With the video light, the light power can be switched on and off from the camcorder. And for the wireless receiver, the power is supplied from the camcorder, and the audio signal is input from the receiver to the camcorder without connecting audio cables.

*10 The MI shoe will be activated by a firmware version upgrade which is scheduled for early 2015.

Specifications

		PXW-X200			
Mass		Approx. 2.4 kg (5 lb 4.7 oz) (body)			
		Approx. 2.8 kg (6 lb 2.8 oz) (with lens hood, eyecup, BP-U30 battery, a SxS memory card)			
Dimensions (W		168×161×331 mm (6 5/8 x 6 3/8 x 13 1/8 inches) (without protrusions)			
Power Requirem					
Power Consump	mon	Approx. 18 W (while recording with LCD Off, EVF On, VO Select Off and Wireless function Off) Approx. 23 W (while recording with LCD On, EVF Off, HD-SDI output and Wireless function On)			
Operating Temp	oraturo	O°C to 40°C (32°F to 104°F)			
Storage Tempero		-20°C to +60°C (-4°F to +140°F)			
Battery Operatin		With battery pack BP-U90: approx. 4.5 hours			
buildly operation	ginno	(while recording with LCD Off, EVF On, I/O Select Off and Wireless function Off)			
		With battery pack BP-160; approx. 3 hours			
		(while recording with LCD Off, EVF On, I/O Select Off and Wireless function Off)			
		With battery pack BP-U3D: approx. 1.5 hours			
Deservices	<exfat></exfat>	(while recording with LCD Off, EVF On, I/O Select Off and Wireless function Off) XAVC-I mode: CBG, max, 112Mbps, MPEG-4 H.264/AVC			
Recording Format	<extrai></extrai>	- 1920x1080/59.94i, 50i, 29.97P, 23.98P, 25P			
(Video)		- 1280x720/59.94P, 50P			
(····,		XAVC-L 50 mode: VBR, max. 50Mbps, MPEG-4 H.264/AVC			
		- 1920x1080/59.94P, 50P, 59.94i, 50i, 29.97P, 23.98P, 25P			
		- 1280x720/59.94P, 50P			
		XAVC-L 35 mode: VBR, max. 35Mbps, MPEG-4 H.264/AVC - 1920x1080/59.94P, 50P, 59.94i, 50i, 29.97P, 23.98P, 25P			
		XAVC-L 25 mode: VBR, max. 35Mbps, MPEG-4 H.264/AVC			
		- 1920x1080/59.94i, 50i			
		MPEG HD422 mode: CBR, 50Mbps, MPEG-2 422P@HL			
		- 1920x1080/59.94i, 50i, 29.97P, 23.98P, 25P - 1280x720/59.94P, 50P, 29.97P, 23.98P, 25P			
		- 1260x720/59.94P, 50P, 29.97P, 23.96P, 25P MPEG HD420 HQ mode: VBR, max. 35Mbps, MPEG-2 MP@HL			
		- 1920x1080/59.94i, 50i, 29.97P, 23.98P, 25P			
		- 1440x1080/59.94i, 50i, 29.97P, 23.98P, 25P			
		- 1280x720/59.94P,50P,23.98P(2-3 Pull Down)			
		DVCAM mode: CBR, 25Mbps, DVCAM			
		- 720x480/59.94i, 29.97PsF - 720x576/50i, 25PsF			
	<ude></ude>	MPEG HD422 mode: CBR, 50Mbps, MPEG-2 422P@HL			
	<ubr></ubr>	- 1920x1080/59.94i 50i 29.97P 23.98P 23.9			
		- 1920x1080/59.94i, 50i, 29.97P, 23.98P, 25P - 1280/720/59.94P, 50p, 29.97P, 23.98P, 25P MFG6 H0420 HG mode: VBR, mox. 35Mbps, MPEG-2 MP@HL			
		MPEG HD420 HQ mode: VBR, max. 35Mbps, MPEG-2 MP@HL			
		- 1920x1080/59.94i, 50i, 29.97P, 23.98P, 25P - 1440x1080/59.94i, 50i, 29.97P, 23.98P, 25P			
		- 1440x1080/39.941, 301, 29.97P, 23.90P, 23P - 1280x720/59.94P,50P,23.98P(2-3 Pull Down)			
		MPEG IMX50 mode: CBR, 50Mbps, MPEG-2 422P@ML Intra			
		- 720x486/59.94i, 29.97PsF			
		- 720x576/50i, 25PsF			
		DVCAM mode: CBR, 25Mbps, DVCAM - 720x480/59.94i, 29.97PsF			
		- 720x460/59.941, 29.97PSF - 720x576/501, 25PsF			
	<fat></fat>	MPEG HD420 HQ mode: VBR, max. 35Mbps, MPEG-2 MP@HL			
	51747	- 1 920x1 080/59.94i, 50i, 29.97P, 23.98P, 25P - 1440x1 080/59.94i, 50i, 29.97P, 23.98P, 25P			
		- 1440x1080/59.94i, 50i, 29.97P, 23.98P, 25P			
		- 1280x720/59.94P,50P, 29.97P, 25P, 23.98P			
		MPEG HD420 SP mode: CBR, 25Mbps, MPEG-2 MP@H-14 - 1440x1080/59.94i, 50i, 23.98P(2-3 Pull Down)			
		DVCAM mode: CBR, 25Mbps, DVCAM			
		- 720x480/59.94i, 29.97PsF			
		- 720x576/50i,25PsF			
		Proxy: H.264			
		- 1280x720: 9Mbps			
		- 640x360: 3Mbps - 480x270: 1Mbps			
		- 480x270: 500Kbps			
Recording	<exfat></exfat>	XAVC-I mode: LPCM 24-bit, 48kHz, 4ch			
Format		XAVC-L mode: LPCM 24-bit, 48kHz, 4ch			
(Audio)		MPEG HD422 mode: LPCM 24-bit, 48kHz, 4ch			
		MPEG HD420 HQ mode: LPCM 16-bit, 48kHz, 4ch DVCAM mode: LPCM 16-bit, 48kHz, 4ch			
	<udf></udf>	MPEG HD422 mode: LPCM 16-bit, 46kHz, 4ch			
	CODES	MPEG HD422 mode: LPCM 24-bit, 48kHz, 4ch MPEG HD420 HQ mode: LPCM 16-bit, 48kHz, 4ch			
		IMX50 mode: LPCM 24/16-bit. 48kHz. 4ch			
		DVCAM mode: LPCM 16-bit, 48kHz, 4ch			
	<fat></fat>	MPEG HD420 HQ mode: LPCM 16-bit, 48kHz, 4ch			
	5.7.02	MPEG HD420 SP mode: LPCM 16-bit, 48kHz, 4ch			
	5000	MPEG HD420 SP mode: IPCM 16-bit, 48kHz, 4ch DVCAM mode: LPCM 16-bit, 48kHz, 2ch Proxx-AR-CL- 48kHz, 128kHz, 2ch			

	PXW-X200
Lens	Fixed
Lens Mount	Fixed
Zoom Ratio	17x (optical), servo/manual
Focal Length	f = 5.6-95.2 mm (25 mm conjugant 20.2.400 mm)
Iris	(35 mm equivalent: 29.3-499 mm) F1.9-F16 and close, auto/manual selectable
Focus	800 mm to ∞ (Macro Off),
FOCUS	50 mm to ∞ (Macro On, Wide),
	800 mm to ~ (Macro On Tala)
	800 mm to ∞` (Macro On, Tele), AF/MF/Full MF selectable
Image Stabilizer	On/Off selectable, shift lens
Filter Diameter	M77 mm, pitch 0.75mm
Camera Section	
Imaging Device (Type)	3-chip 1/2-inch type "Exmor" Full HD CMOS
Effective Picture Elements	1920 (H) x 1080 (V)
Built-in Optical Filters	Clear, 1: 1/8ND, 2: 1/64ND
Sensitivity	F12 (typical, 1920 x 1080/59.94i mode)
ochanivny	F13 (typical, 1920 x 1080/50i mode)
S/N Ratio	58dB (Y) (typical)
Shutter Speed	1/32 sec to 1/2,000 sec
Slow & Quick Motion	XAVC Intra/Long mode:
Function	- 1080P: 1-30 and 60 fps in NTSC setting, 1-25 and 50 fps in PAL setting
	- 720P: 1-60 fps in NTSC setting, 1-50 fps in PAL setting
	MPEG HD422 mode:
	- 1080P: 1-30 fps in NTSC setting, 1-25 fps in PAL setting
	- 720P: 1-60 fps in NTSC setting, 1-50 fps in PAL setting
	MPEG HD420 HQ mode:
	- 1080P: 1-30 fps
Milita Dalaman	- 720P: 1-60 fps
White Balance	Preset (3200K), Memory A, Memory B/ATW Yes
GPS*2	Yes
Wireless functions	
NFC	Yes
Input/Output	VID have 0 min (fermale) (r0)
Audio Input	XLR-type 3-pin (female) (x2)
HDMI Output	Type A (x1)
SDI Output	BNC (x1), 3G/HD/SD selectable
Composite Output	BNC (x1)
/GENLOCK-IN	A & I multi-segmenting (vT)
Audio Output	AV multi connector (x1)
USB TO in faut	USB device, mini-B (x1)
TC in/out	BNC (x1)
Lens Remote	8-pin, round (x1)
DC Input	DC jack (x1)
Shoe	Multi Interface Shoe (x1)
Headphone Output	Stereo mini jack ø3.5mm (x1)
Option	4-pin Type A (x1)
Monitoring	
Viewfinder	0.45-inch type color LCD: 852 (H) x 480 (V), 16:9
LCD	3.5-inch type color LCD monitor: 960 (H) x 3 (RGB) x 540 (V), 16:9
Built-in Microphone	
Built-in Microphone	Omni-directional stereo electret condenser microphone
Media	
Туре	ExpressCard/34 slot (2) (for XAVC/MPEG/IMX/DV)
	SD/SDHC (1) (for Proxy)
Supplied Accessorie	
	Lens hood (1), pre-installed to the Camcorder
	EVF large evecup (1), pre-installed to the Camcorder
	Infrared Remote Commander (1)
	Wireless LAN module IFU-WLM3 (1)
	Accessory shoe kit (1)
	Battery pack BP-U30 (1) Bettery charger PC (1) (1)
	Battery charger BC-U1 (1)
	Power Code (1)
	USB cable (1)
	USB cable (1) ´ Audio connecting cable (1)
	USB cable (1) Audio connecting cable (1) Shoulder strato (1)
	USB coble (1) Audio connecting cable (1) Shoulder stop (1) Lithium battery (CR2022 for dato bockup) (1), Pre-installed to the Camcorder Lithium battery (CR2026 for the IR Remote Commonder (1) Pre-installed to the IR Remote Commonder
	USB coble (1) Audio connecting cable (1) Shoulder stop (1) Lithium battery (CR2022 for dato bockup) (1), Pre-installed to the Camcorder Lithium battery (CR2026 for the IR Remote Commonder (1) Pre-installed to the IR Remote Commonder
	USB cable (1) Audio connecting cable (1) Shoulder strato (1)

*1 The values for dimensions are approximate.
*2 A firmware version upgrade is required to activate this function (early 2015).

ECM-VG1

Microphone

Electret Condenser





ECM-MS2

Microphone

MEAD-SD02

XDCAM Series

SD Card Adaptor for

Electret Condenser

SD Card Adaptor 5



ECM-673 Electret Condenser Microphone



MEAD-MS01 Memory Stick Adaptor for

XDCAM EX

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BP-U30/BP-U60/ BP-U60T/BP-U90 Rechargeable Battery pack	BC-U1/BC-U2 Battery Charger/ AC Adaptor	HVL-LBPC Battery Video Light
1000 A	6009 A 7000 515-1	SONY



SBP-128B/SBP-64B SBS-64G1A/SBS-32G1A SxS PRO+ Memory Cards SxS-1 Memory Cards

Dimensions

Available Accessories

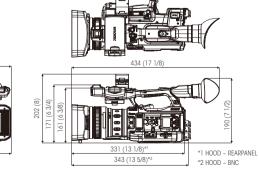


UWP-D11/UWP-D12

Wireless Microphone Package

QD-G32A SF-8UX XQD G Series Memory Cards SDHC Memory Card





Unit: mm (inches)





SMAD-P3

MI Shoe Mount Adaptor

* required for cable-free operation with UWP-D11/UWP-D12