

1/3-type 3CMOS Solid-state Memory Camcorder

The PXW-X180 and PXW-X160 are the latest addition to the Sony XDCAMTM Series of professional camcorders. It features three 1/3-type Full HD Exmor® CMOS sensors and a newly developed 25x optical zoom G Lens that extends from 26 mm wide angle. The PXW-X180 and PXW-X160 can record in XAVC Intra and Long GOP, enabling 10-bit sampling for high-definition recordings with rich tonal expression, as well as MPEG HD422 at 50 Mbps, a format widely preferred by today's broadcasters and production houses. It can also record in MPEG HD420 at 35 Mbps, AVCHD™, and DV formats.

This advanced camcorder has been created to satisfy the needs of broadcast stations, production houses, and independent video creators, with performance and features that are ideally suited for news, documentaries, events, and more.

The PXW-X160 differs from the PXW-X180 in the omission of features such as wireless functionality, NFC, and GPS, effectively lowering the price point while maintaining the same high level of performance.















Newly developed 25x optical zoom G Lens with 26 mm wide angle

This new lens delivers uncompromised Sony G Lens quality and a 26 mm angle of view at the wide end of its 25x zoom range (35 mm equivalent: 26 mm to 650 mm). That's more than enough range for a wide variety of shooting situations. Independent manual zoom and focus rings with end-stop and iris control are provided, and a slide



Compatible with XAVC and a range of other recording formats

In addition to XAVC Intra/Long GOP, the PXW-X180 and PXW-X160 can record in MPEG2, AVCHD, and DV format. The MXF file format is used for XAVC recording, efficiently compressing full HD (1920 x 1080) resolution using the MPEG-4 AVC/H.264 codec. Image sampling is 4:2:2 10-bit with Intra-frame compression at 112 Mbps, or high-efficiency Long-GOP compression at 50/35/25 Mbps.



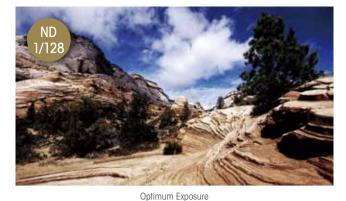
Innovative Sony image sensor, image processor, and lens achieve outstanding image quality

Sony's Exmor™ 3CMOS Sensor system provides independent 1/3-type CMOS image sensors for the red, blue, and green color channels, each with 2.07 effective megapixels (16:9). The result is high resolution and sensitivity that contribute to superior color reproduction. An advanced image processor that features sophisticated noise reduction and distortion compensation is instrumental in delivering superb detail and texture reproduction, with image quality settings rivaling highend broadcast camcorders.

Support for SxS, XQD, and SD memory cards plus Memory Stick

To provide compatibility with a variety of workflows, the PXW-X180 and PXW-X160 feature two SxS memory card slots for high-speed read/write capability. An XQD card adaptor allows recording to XQD memory cards, and an SD card adaptor enables recording to SD memory cards for maximum economy when shooting for extended periods.





Overexposed

Fine aperture control from 1/4 to 1/128 makes it easy to dial in perfect exposure for a wide range of scenes.

Variable ND filter

The PXW-X180 and PXW-X160 are the first professional Sony camcorders to feature a continuously variable ND filter. A new filter device that electronically controls density

enables continuous adjustment from 1/4 ND to 1/128 ND via a simple dial operation. In conjunction with iris setting that controls depth of field and brightness, this advanced filter facilitates shooting techniques such as the use of slow shutter in daylight and other bright conditions. For operators who prefer the conventional ND selector interface, the PXW-X180 and PXW-X160 feature a dual ND filter control mechanism that provides both continuous electronic control and the standard four-position switch.



Wireless functions*1 for file transmission and remote control (PXW-X180 only)

Near Field Communication (NFC*²) functions allow easy, one-touch wireless LAN connection to a smartphone or tablet. The Content Browser Mobile*³ application enables confirmation of the angle of the shot before shooting, monitor recording, and remote operation of the camcorder (field angle/white balance/iris, etc.). The use of mobile routers (sold separately) and other mobile devices also allows transmission of files after shooting. In addition, lightweight proxy video files can be generated separately from the main line recording and recorded to SD cards for quick sharing of content over low-bandwidth mobile networks.

- *1. Wireless operation cannot be guaranteed with all smartphones and tablet devices.
 *2. NFC, or Near Field Communication, allows close-range wireless communication between the PXW-X180 and an NFC equipped smartphone or tablet device.
- *3.The required Content Browser Mobile smartphone application can be downloaded from the Google Play Store or Apple App Store. Version X.X.X or later is required.

3.5-type LCD panel and 0.5-type OLED viewfinder

The PXW-X180 and PXW-X160 are equipped with a 3.5-type QHD LCD panel (960 x 540 xRGB, 16:9) that provides easy viewing in a wide range of lighting conditions. Both models also feature a 0.5-type OLED viewfinder (1024 x 768 xRGB, 4:3). High resolution makes precise manual focus easy. Compared to LCOS devices, there is no color breakup and viewing comfort is significantly improved.



Multi-Interface Shoe

Compatible accessories attached to the Multi-Interface (MI) Shoe can be controlled from the PXW-X180 or PXW-X160. The HVL-LBPC video light, for example, can be switched on and off from the camcorder. Power and audio connections for a UWP-D11 or UWP-D12 wireless microphone receiver are made via the MI Shoe, minimizing the need for extra batteries and additional cabling.





Specifications

		PXW-X160 PXW-X160		
Mass		Approx.2.7 kg (body)		
		Approx. 5lb 15.2 oz (body)		
		Approx. 3.2 kg (with lens hood (1), eyecup (1), battery pack BP-U3O (1), SxS memory card(1)) Approx. 7lb 0.9 oz (with lens hood (1), eyecup (1), battery pack BP-U3O (1), SxS memory card (1))		
Dimensions (W x H x D)*1		191.5 x 201.5 x 412 mm (Approx. 7 5/8 x 8 x 16 1/4 in.) (without protrusions)		
Power Requirements		DC19.5 V (AC Adaptor), DC14.4 V (battery pack)		
Power Consumption Operationg Temperature		Approx. 19.9 W		
		(while recording with LCD Off, EVF On when the external device connector is not used.)		
		Approx. 20.8 W (while recording with LCD On, EVF On when the external device connector is used.)		
		0°C to 40°C (32°F to 104°F)		
Storage Temperature		-20°C to +60°C (-4°F to 104°F)		
Battery Operating Time		With battery pack BP-U90: approx. 4 hours, 00 minutes		
		(While recording with LCD Off, EVF On when the external device connector is not used.)		
		With battery pack BP-U60: approx. 2 hours, 35 minutes (While recording with LCD Off, EVF On when the external device connector is not used.)		
		With battery pack BP-U30: approx. 1 hours, 15 minutes		
		(While recording with LCD Off, EVF On when the external device connector is not used.)		
ormat 1	KAVC-Intra 1920x1080	59.94i: 111Mbps max, 50i: 112Mbps max, 29.97P: 111Mbps max, 25P: 112Mbps max, 23.98P: 89Mbps max		
1	KAVC-Intra 1280x720	59.94P: 111Mbps max, 50P: 112Mbps max		
	(AVC-Long 1920x1080	59.94i, 50i: 50/35/25Mbps max, 59.94P, 50P, 29.97P, 25P, 23.98P: 50/35Mbps max		
	XAVC-Long 1280x720	59.94P, 50P: 50Mbps max		
	MPEG HD422 1920x1080	59.94i, 50i, 29.97P, 25P, 23.98P: 50Mbps max		
	MPEG HD422 1280x720	59.94P, 50P, 29.97P, 25P, 23.98P: 50Mbps max		
	MPEG HD420 1920x1080	59.94i, 50i, 29.97P, 25P, 23.98P: 35Mbps max		
	MPEG HD420 1440x1080	59.94i, 50i: 35Mbps max		
	MPEG HD420 1280x720	59.94P, 50P: 35Mbps max		
	AVCHD 1920x1080	59.94P, 50P: 28Mbps max, 59.94i, 50i, 29.97P, 25P, 23.98P: 24Mbps max		
	AVCHD	59.94P, 50P: 24Mbps max		
	1280x720 DVCAM	59.94i: 25Mbps		
	720x480	07.74I. 20IVIDPS		
[DVCAM 720x576	50i: 25Mbps		
	Proxy	1280x720: 9Mbps -		
		640x360: 3Mbps		
		480x270: 1Mbps 480x270: 500Kbps		
Recording For	mat (Audio)	LPCM, AC-3 (AVCHD): 2ch→ LPCM (XAVC/MPEG2/AVCHD/DVCAM), Dolby Digital (AVCHD): 2ch		
ecording For ens	mul (Audio)	TELOW, NO-2 (NVOTID), 201→ EPOW (NAVOJNINEOZJAVOTID/DVONIM), DOIDY DIGITAL (NVOHD): 2011		
ens Mount		Fixed		
Zoom Ratio		25x (optical), servo/manual		
Focal Length		f=3.7-92.5 mm		
		equivalent to 26-650 mm on 35 mm lens		
Iris		F1.6 - F11 and C (close)		
Focus		AF/MF selectable, 10 mm ~ ∞ (Wide), 800 mm ~ ∞ (Tele)		
Image Stabilizer		ON/OFF/ACTIVE selectable, shift lens		
Filter Diameter		M82 mm		

PXW-X180	PXW-X160	
3-chips 1/3-type "Exmor" CMOS Sensor		
1920 (H) x 1080 (V)		
Clear, 1/4~1/128 Variable		
F9 (typical) (1920 x 1080/59.94i mode) F10 (typical) (1920 x 1080/50i mode)		
60 dB (Y) (typical)		
1/32 sec to 1/2000 sec		
1920x 1880p: Frame rule selectable 1–60p (depends on Recording Format) 1280x720: 1–120P (depends on Recording Format) Angle of view becomes smaller over 60fps.		
Preset (3200K), A,B		
Yes	No	
Yes	No	
Yes	No	
XLR-type 3-pin (female) (x2)		
Type A (x1)		
BNC Connector (x1)		
BNC Connector (x1)		
Stereo mini jack ø3.5 mm (x1)		
min-BAUBS2.0 Hi-speed/moss-storage (x1) Type Mor Wireless IAM module (x1) Type AURS0, (x1) (future Update)		
BNC Connector (x1)		
Stereo mini mini jack ø2.5 mm (x1)		
DC jack (x1)		
Multi Interface Shoe (x1)		
Stereo mini jack ø3.5 mm (x1)		
0.5-type color OLED, 2.36M dots		
3.5-type color LCD monitor Aspect ratio 16:9, 1.56Mdots		
Omni-directional stereo electret condenser microphone		
ExpressCard/34 slot (2) (for XAVC/MPEG2/AVCHD/DV) SD/SDHC (1) (for Proxy) SD/SDHC (1) (for Utility)	ExpressCard/34 slot (2) (for XAVC/MPEG2/AVCHD/DV) SD/SDHC (1) (for Utility)	
S		
EVF large ejecup (1) USB cable (1) USB cable (1) USB cable (1) Unfruera Remole Commander (1) Ultimum battley (20/225 for the IR Remole Commander) (1) CD-ROM Operating instructions in PDF (1) BC-U1 battley charger (1) BP-U3D battley pack (1) AC Cable (2) COLD SHOE KIT (1) Shoulder strap (1) Wireless LAM module (1) Warranty booklet (1) Accessory shee skil (accessory shoe (1), accessory shoe plate (1), screws (4) SD cand daploter (1) except for PXW-X180 UC model	Lens hood (1), pre-installed to the Camcorder EVF large eyeoup (1) US8 coble (1) Audio connecting cable (1) Infrared Remale Commander (1) USH by Coble (1) US9 coble (1) Audio connecting cable (1) US9 coble (2) US9 coble (2) US9 coble (3) US9 coble (1) Accable (3) US9 coble (1) Accassary shoe kit (accessory shoe (1), accessory shoe pible (1), acress (4) So card adaptor (1)	
	3-chips 1/3-type "Exmor" CMOS Sensor 1920 (B) x 1080 (V) Clear, 1/4-1/128 Varioble F9 (Tyripcial) (1920 x 1080/59-941 mode) F10 (typical) (1920 x 1080/59-941 mode) F10 (typical) (1920 x 1080/59-941 mode) F10 (typical) (1920 x 1080/59-941 mode) 1/32 sec to 1/2000 sec 1/20x 1080 r/20x 1080/59 mode) 1/32 sec to 1/2000 sec 1/20x 1080 r/20x 1-120P (depends on Recording Format) Angle of view becomes smaller over 60fps. Preset (3000K), A.B Ves Ves Ves Ves Ves SUR-type 3-pin (female) (x2) Type A (x1) BNC Connector (x1) BNC Connector (x1) BNC Connector (x1) Slereo mini jack 8.5 mm (x1) mini-BUSS2.0 Hi-speed/mass-storage (x1) Type A/05 Wineless LAN module (x1) Type A/05 (x1) (future Update) BNC Connector (x1) Stereo mini mini jack 8.5 mm (x1) Multi Interface Shae (x1) Stereo mini mini jack 8.5 mm (x1) Clock (x1) Multi Interface Shae (x1) Stereo mini jack 8.5 mm (x1) Onni-directional stereo electret condenser microphone ExpressCard/34 slot (2) (for XAVC/MPEG2/AVCHD/DV) SD/SDNC (1) (for Proxy) SD/SDNC (1) (for	

^{*1} The values for dimensions are approximate.

Available Accessories



BP-U30/BP-U60/ BP-U60T/BP-U90 Battery Charger/ Rechargeable Battery pack AC Adaptor



BC-U1/BC-U2



HVL-LBPC Battery Video Light



UWP-D11/UWP-D12 Wireless Microphone Package



MI Shoe Mount Adaptor required for cable-free ope with UWP-D11/UWP-D12



SMAD-P3 ECM-VG1 Microphone



ECM-MS2 Electret Condenser Electret Condenser Microphone



ECM-673 Electret Condenser Microphone



RM-1BP Remote Commander



SBP-128B/SBP-64B SxS Memory Card "SxS PRO+"



SBS-64G1A/



SBS-32G1A XQD Mer SxS Memory Card "SxS-1" S Series



QD-S64E/QD-S32E SF-32UX XQD Memory Card



(32 GB, 16 GB, 8 GB) SD/SDHC Memory Card



MS-HX32B (32 GB, 16 GB, 8 GB) Memory Stick PRO-HG DuoTM



QDA-EX1



XQD ExpressCard Adaptor

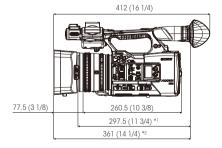


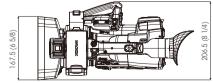
MFAD-SD02 SD Card Adaptor for XDCAM Series

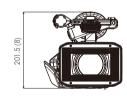


MEAD-MS01 Memory Stick Adaptor for XDCAM EX

Dimensions







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*1: LENS-EVF *2: HOOD-EVF Unit: mm (inches)