

World's first 4K 3-chip Camcorder with 1/2-type Exmor R[™] CMOS image sensors, Redefines Handheld Production Image Quality and Workflow

World-leading handheld 4K 50p/60p* performance

Capture the whole scene with PXW-Z280. An all-new 4K 3CMOS 1/2-type sensor delivers a deep depth of field with image quality, contributing to high resolution, high sensitivity of F12 (59.94p), and wide dynamic range. 4K 4:2:2 10-bit adds vivid imagery and delicate color gradation.

*59.94p

Instant HDR workflow

Shoot, edit and view HDR content in HLG without the need for additional colour grading. Premium content services are switching to HDR and the PXW-Z280 is ready with Hybrid Log-Gamma (HLG) recording, which allows you to easy file-based workflows, whilst achieving the image quality of HDR in addition to S-Log3. This simple workflow enables the shooting, editing and viewing of HDR content in HLG without devoting a lot of time to post-production work and additional colour grading.

Built-in electronic variable ND filters

Sony's ground-breaking integration of electronic variable ND Filters into the body of a camcorder enables fast, agile shooting. Moving from shadowy interiors to bright sun-lit exteriors is no problem. Unlike conventional optical ND filters, the electronic ND filter on the PXW-Z280 can be controlled from 1/4ND to 1/128ND linearly while ND Filters can be set to fully auto. You can even manually adjust Depth of Field using the iris lens ring, while relying on the camcorder to maintain constant exposure without changing gain nor shutter speed.















17x professional zoom lens with three independent rings with end-stop and sensor cropping extender

The PXW-Z280 is equipped with a 17x professional zoom lens able to zoom from 30.3mm to 515mm (35mm equivalent). The 1/2-inch type lens has three independent control rings with end-stop, which allows manual control of focus, zoom and iris, making for better and faster adjustment. The image can be enlarged without any picture degradation in an HD mode and 34x times zoom equivalent image is captured with sensor cropping extender.

Face Detection Autofocus(AF)

This feature is important especially in more demanding 4K shooting applications, such as recording interviews or lectures, helping a specific person subjects automatically stay in pin-sharp focus.



Face Detection AF

Revolutionary networking capabilities

Based on the technology developed for Sony's cloud-based ENG service, "XDCAM air," the new camcorder uses Sony's Quality of Service (QoS) for live distribution of high-quality broadcast content using a Dual Link connection multiplexing two cellular networks, assigning Planning Metadata and browsing and getting clips in the recording media on camcorders from a distant broadcast station via the cloud. In addition, an integrated Wi-Fi module and Ethernet connector enable hybrid Wireless/Wired data transfer, remote control and monitoring from devices such as a smartphone, tablet or PC, giving users more flexibility in production.

The complete package for professional

Unpack and shoot from day one. Advanced XAVC-Long and XAVC Intra for 4K QFHD and HD, plus MPEG HD422,MPEG HD and DVCAM to support any workflow SxS card and SD card with optional adapter can be used as recording media, giving flexible choice for users. Four-channel audio recording with independent volume dials enables precise control of external input audio and an attached MI shoe microphone. 12G-SDI enables 4K 50p / 60p transfer between long distance using only one BNC cable and dual MI shoes provide cable-less connection with Sony's UWP-D series wireless microphone receiver and use of a video light at the same time.

Dual SxS media slots

The camcorder is equipped with two SxS memory card slots, which can record in Simul, Relay or Back up mode. Simul mode permits simultaneous recording to two memory cards, including simultaneous recordings of MPEG HD exFAT and UDF recordings, ideal for archival purposes. Relay mode automatically switches recording from the first to the second memory card when the first is full to extend recording times. In Back up mode, users can set up the two Start/Stop buttons on the PXW-Z280, one on the grip and one on the camcorder body, to independently start and stop recording on different memory cards while recording in Simul mode.

Specifications

General	
	Approx 2.6 kg (hody)
Mass	Approx 2.6 kg (body)
	Approx. 5 lb 11.7 oz (body)
	Approx. 3.0 kg (with lens hood, eyecup, BP-U30 battery,
	a SxS memory card)
	Approx. 6 lb 9.8 oz (with lens hood, eyecup, BP-U30
Dimensions	battery, a SxS memory card)
Dimensions (W x H x D)	178.4 × 202.0 × 426.3 mm (With the accessories (lens
	hood, eyecup), excluding the grip belt and including the projecting parts)
	7 1/8 x 8 x 16 7/8 inches (With the accessories (lens
	hood, eyecup), excluding the grip belt and including the
	projecting parts)
Power Requirements	DC In: 12V
	Battery: 14.4 V
Power Concumption	Approx. 24W(while recording with LCD Off, EVF On when
Power Consumption	the external device connector is not used.)
	Approx. 36W(while recording with LCD On, EVF On when
	the external device connector is used.)
Operating	0°C to 40°C (32°F to 104°F)
Temperature	0 0 10 40 0 (32 1 10 104 1)
Storage	-20°C to +60°C (-4°F to +140°F)
Temperature	20 € 10 100 € (4 1 10 1140 1)
Battery Operating	Approx. 1 hours, 5 minutes with BP-U30 battery
Time	(while recording with LCD Off, EVF On when the external
	device connector is not used.)
	Approx. 2 hours, 10 minutes with BP-U60 battery
	(while recording with LCD Off, EVF On when the external
	device connector is not used.)
	Approx. 3 hours, 15 minutes with BP-U90 battery
	(while recording with LCD Off, EVF On when the external
	device connector is not used.)
Recording Format	XAVC-I QFHD mode:MPEG-4 AVC/H.264, CBG, Max.600
(Video)	Mbps
	XAVC-I HD mode:MPEG-4 AVC/H.264, CBG, Max.222
	Mbps
	XAVC-L QFHD mode:VBR, maximum bit rate 150Mbps,
	MPEG-4 H.264/AVC
	XAVC-L HD 50 mode:VBR, maximum bit rate 50Mbps,
	MPEG-4 H.264/AVC
	XAVC-L HD 35 mode:VBR, maximum bit rate 35Mbps,
	MPEG-4 H.264/AVC
	XAVC-L HD 25 mode:VBR, maximum bit rate 25Mbps,
	MPEG-4 H.264/AVC
	MPEG HD422 mode:CBR, maximum bit rate 50Mbps,
	MPEG-2 422P@HL
	MPEG HD420 HQ mode:VBR, maximum bit rate 35Mbps, MPEG-2 MP@HL
	DVCAM mode:CBR, 25Mbps, DVCAM
Pacarding Format	·
Recording Format (Audio)	XAVC-I mode:LPCM 24-bit, 48kHz, 4 channels
	XAVC-L mode:LPCM 24-bit, 48kHz, 4 channels
	MPEG HD422 mode: LPCM 24-bit, 48kHz, 4 channels
	MPEG HD420 HQ mode:LPCM 16-bit, 48kHz, 4 channels
	DVCAM mode:LPCM 16-bit, 48kHz, 4 channels

Recording Frame Rate	XAVC-I QFHD mode:3840x2160/59.94p, 50p, 29.97p, 23.98p, 25p
	XAVC-I HD mode:1920x1080/59.94p, 59.94i, 50p, 50i, 29.97P, 23.98P, 25P
	1280x720/59.94P, 50P
	XAVC-L QFHD 150 mode:3840x2160/59.94P, 50P, 29.97P,
	23.98P, 25P
	XAVC-L HD 50 mode:1920x1080/59.94P, 50P, 59.94i, 50i,
	29.97P, 23.98P, 25P
	1280x720/59.94P, 50P
	XAVC-L HD 35 mode:1920x1080/59.94P, 50P, 59.94i, 50i, 29.97P, 23.98P, 25P
	XAVC-L HD 25 mode:1920x1080/59.94i, 50i
	MPEG HD422 mode:
	1920x1080/59.94i, 50i, 29.97P, 23.98P, 25P
	1280x720/59.94P, 50P, 29.97P, 23.98P, 25P
	MPEG HD420 HQ mode:1920x1080/59.94i, 50i, 29.97P,
	23.98P, 25P
	1440x1080/59.94i, 50i, 29.97P, 23.98P, 25P 1280x720/59.94P,50P
	DVCAM mode:720x480/59.94i, 29.97PsF
	720x576/50i, 25PsF
Recording/Playback	XAVC-I QFHD mode When using SBP-
Time	128B(128GB):Approx. 22 minutes
	XAVC-I HD mode When using SBP-128B(128GB):Approx.
	57 minutes
	XAVC-L QFHD 150 mode When using SBP-
	128B(128GB):Approx. 86 minutes
	XAVC-L HD 50 mode When using SBP-
	128B(128GB):Approx. 230 minutes
	XAVC-L HD 35 mode When using SBP-
	128B(128GB):Approx. 310 minutes
	XAVC-L 25 mode When using SBP-128B(128GB):Approx.
	420 minutes
	MPEG HD422 mode When using SBP-
	128B(128GB):Approx. 215 minutes
	MPEG HD420 HQ mode When using SBP-
	128B(128GB):Approx. 330 minutes
Describe a Formest	When using SBP-128B(128GB):Approx. 405 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
	1920x1080, 9Mbps
	1280x720, 9Mbps
	1280x720, 6Mbps
	640x360, 3Mbps
	480x270, 1Mbps
	480x270, 0.5Mbps
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Available Accessories







BC-U1A/BC-U2A Battery Charger/AC Adaptor



UWP-D11/UWP-D12 Wireless Microphone Package



SMAD-P3 MI Shoe Mount Adaptor * required for cable-free operation with UWP-D11/UWP-D12



URX-P03D UWP-D two-channel portable receiver



SMAD-P3D MI Shoe Mount Adaptor * required for cable-free operation with URX-P03D











SBP-256E/SBP-128E SxS PRO + Memory Cards



SBS-128G1C/SBS-64G1C SxS-1 Memory Cards



MCX-500 Multicamera Live Producer



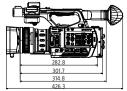


Specifications

Lens Fixed Zoom Ratio 17x (optical), servo/manual Focal Length f = 5.6 - 95.2 mm (35mm equivalent: 30.3 - 515 mm) Iris F1.9 - F16 and close auto/manual selectable Focus 800 mm to ∞ (Macro Off) 50 mm to ∞ (Macro On, Wide) 800 mm to ∞ (Macro On, Tele) AF/MF/Full MF selectable	
$\begin{tabular}{lll} Zoom Ratio & 17x (optical), servo/manual \\ Focal Length & f = 5.6 - 95.2 mm \\ (35mm equivalent: 30.3 - 515 mm) \\ Iris & F1.9 - F16 and close \\ \hline & auto/manual selectable \\ Focus & 800 mm to \infty (Macro Off) \\ \hline & 50 mm to \infty (Macro On, Wide) \\ \hline & 800 mm to \infty (Macro On, Tele) \\ \hline \end{tabular}$	
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Focus $ 800 \text{ mm to } \infty \text{ (Macro Off)} $	
50 mm to ∞ (Macro On, Wide) 800 mm to ∞ (Macro On, Tele)	
50 mm to ∞ (Macro On, Wide) 800 mm to ∞ (Macro On, Tele)	
800 mm to ∞ (Macro On, Tele)	
Image Stabilizer On/Off selectable, shift lens	
Filter Diameter M77 mm, pitch 0.75mm	
Camera Section	
Imaging Device 1/2 type back-illuminated Exmor R 3CMOS sensor	
(Type)	
Effective Picture 3840 (H) x 2160 (V)	
Elements	
Optical System F1.6 prism system	
Built-in Optical ND filters OFF: CLEAR 1:1/4ND 2:1/16ND 3:1/64ND	ID
Filters Linear variable ND (Approx. 1/4ND to 1/128ND)	ID
Sensitivity (2000 lx, F12 (typical, 1920 x 1080/59.94p mode)	
89.9% reflectance) F13 (typical, 1920 x 1080/50p mode)	
F12 (typical, 3840 x 2160/59.94p, High Sensitivity Mode	lode)
F13 (typical, 3840 x 2160/50p, High Sensitivity Mode)	
Minimum 0.0013lx (typical)	-/
Illumination (1920 x 1080/59.94i mode, F1.9, +42 dB gain, High	
Sensitivity Mode, with 64 frame accumulation,)	
S/N Ratio 63 dB (Y) (typical)	
Horizontal 2,000 TV lines or more (3840 x 2160p mode)	
Rezolution 1,000 TV lines or more (1920 x 1080p mode)	
Shutter Speed 1/24 sec to 1/8,000 sec	
Slow Shutter (SLS) 2, 3, 4, 5, 6, 7, 8, 16, 32, and 64-frame accumulation	
Slow & Quick Motion <xavc intra=""><xavc long=""></xavc></xavc>	
Function 2160P: 1-60 fps	
1080P: 1-60 fps	
720P: 1-60 fps	
<mpeg hd422=""></mpeg>	
1080P: 1-30 fps	
720P: 1-60 fps	
<mpeg hd420="" hq=""></mpeg>	
1080P: 1-30 fps	
720P: 1-60 fps	
White Balance Preset (3200K), Memory A, Memory B/ATW	
Gain -3, 0, 3, 6, 9, 12, 18 dB, 42dB(Turbo Gain ON), AGC	
Gamma Curve Selectable	
Input/Output	
Audio Input XLR-type 3-pin (female) (x2), line/mic/mic +48 V	
selectable	
LINE:+4, 0, -3dBu/10kΩ	
MIC:-80dBu to -30dBu /3kΩ	
(0 dBu=0.775 Vrms)	
Video Output BNC (x1), HD-Y/ HD-SYNC/Composite	
1.0Vp-p, 75Ω	
(switchable to Genlock in)	

Dimensions







Unit: mm (inches)

Audio Output	Integrated into Multi/Micro USB jack(x1)
SDI Output	BNC (x1), 12G/3G/HD/SD selectable
Timecode Input	BNC (x1) (switchable to TC out)
	0.5V-1.8Vp-p, 3.3kΩ
Timecode Output	BNC (x1) (switchable to TC in)
	1.0Vp-p, 75Ω
Genlock Input	BNC (x1) (switchable to Video out)
	1.0 Vp-p, 75Ω
USB	USB device, Multi/Micro USB jack (x1)
	Host:USB 3.0/2.0 type A(x1)
Handahana Outuut	USB 2.0 type A(x1)
Headphone Output	Stereo mini jack (x1)
Speaker Output	-16dBu 16Ω Monaural Output: 500mW
DC Input	DC jack (x1)
Remote	Stereo mini-minijack (Ф2.5 mm)
HDMI Output	Type A (x1)
Wired LAN	RJ-45 (x1), 1000BASE-T, 100BASE-T, 10BASE-T
Monitoring	13 43 (XI), 1000DA3E 1, 100DA3E 1, 10DA3E 1
Viewfinder	1.3 cm (0.5 type)
Vicwiniaci	Approx 2.36M dots
LCD	8.8cm (3.5 type)
200	Approx. 1.56M dots
Built-in Micropho	
Built-in Microphone	
Media	
Туре	ExpressCard/34 slot (x2)
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 GHz bandwidth (PXW-Z280V only)
Security	WEP/WPA-PSK/WPA2-PSK
NFC	NFC Forum Type 3 Tag compliant
Supplied Access	oies
Supplied Accessoies	Lens hood (1), Pre-installed to the Camcorder
	EVF eyecup (1), Pre-installed to the Camcorder
	Battery pack BP-U30 (1)
	Battery charger BC-U1A (1)
	Power Code (1)
	USB cable (1)
	Shoulder strap (1)
	Warranty Booklet (1)
	"Before Using this Unit" (1)
	CDROM "Operating instructions" (1)

*Depending on country/regional regulation

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