

SONY



PXW-Z750

4K XDCAM Shoulder Memory Camcorder

4K

Sony proudly introduces the flagship 4K XDCAM Shoulder Memory Camcorder. With 4K/HD compatibility, you can make heavy use of this camcorder not only for ENG but also for a variety of 4K/HD TV program applications including live events.

The PXW-Z750 incorporates a newly developed 3-chip 2/3-type 4K CMOS image sensor which delivers stunning high picture quality with high sensitivity, an excellent S/N ratio, and deep depth of field.

The hallmark of the PXW-Z750 is its global shutter which helps you to achieve clear image shooting in any kind of situation by avoiding flash band and the jello effect.

Furthermore, the PXW-Z750 supports conventional 4K XAVC Intra/Long as well as new XAVC QFHD Long422 200 recording. This is helpful for producing 4K programs in a lower bit rate while keeping high image quality, at the same level as XAVC-Intra QFHD, and achieving longer recording hours, lower media cost, and faster file transfer. It ensures 10-bit quantization and 4:2:2 color sampling, making the PXW-Z750 an ideal choice for HDR productions.

In addition to these fundamental functions, this camcorder also offers B4 mounting, convenient networking features, and a user-friendly ergonomic-design weight balance – all of which are highly beneficial to shoulder camcorder users.

XDCAM **XAVC** **MPEG HD422**

4K 2/3-type 3-chip CMOS

The PXW-Z750 incorporates a newly developed 3-chip 2/3-type 4K CMOS sensor. With its 3-chip sensor, red, blue and green lights are independently captured by separate image sensors, contributing to more faithful color reproduction.

Global Shutter

The PXW-Z750 incorporates a global shutter which eliminates the jello effect and flash band interference. This feature helps you to shoot fast-moving objects and scenes such as a press conference flooded by strobe lighting.

Multiple-Format Recording

The PXW-Z750 offers a wide array of recording formats for a variety of applications. In addition to XAVC QFHD Intra Class 300 and Long150 formats, you can also record with the new QFHD format, XAVC QFHD Long422 200. Since this new format incorporates 10-bit 422 color sampling, it is able to deliver a stunning HDR picture. Also, this new format provides high picture quality at an equivalent level to the XAVC Intra Class300 format.



Codec	Video Format	Frequency	Maximum Bitrate (Mbps)	Bit Depth	Color Sampling
XAVC Intra	3840 x 2160	59.94p, 50p, 29.97p, 25p, 23.98p	600	10bit	4:2:2
	1920 x 1080	59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p	223		
XAVC Long	3840 x 2160	59.94p, 50p	200	10bit	4:2:2
		59.94p, 50p	150	8bit	4:2:0
		29.97p, 25p, 23.98p	100	8bit	4:2:0
MPEG HD422	1920 x 1080	59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p	50	8bit	4:2:2
	1280 x 720	59.94p, 50p, 29.97p, 25p, 23.98p			
MPEG HD420	1920 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	35	8bit	4:2:0
	1440 x 1080	59.94i, 50i			
	1280 x 720	59.94p, 50p			

Versatile 4K Output Interfaces

The PXW-Z750 includes versatile 4K output interfaces such as 2-slot 12G-SDI and 1-slot HDMI output.



Versatile B4 ENG Lens

Thanks to the camcorder's versatile 2/3-type native sensor and B4 lens mount, you can install a variety of B4 ENG lenses including either 4K or HD. This lens option flexibility supports a variety of shooting applications while reducing cost by leveraging your existing lens investments.



Spectacular HDR Performance

The PXW-Z750 offers HDR recording with HLG and S-Log3. As for color gamut, this camcorder supports S-Gamut3/S-Gamut3.Cine in addition to ITU-R BT.2020 and allows you to shoot in various situations.

Simultaneous 4K/HD Recording

The PXW-Z750 supports simultaneous 4K and HD recording. Furthermore, you can record both 4K HDR and HD SDR in parallel either by monitoring HD SDR images or by applying HLG display assist to the viewfinder.

Variety of Network Functions

To support effective wireless ENG/EFP workflows, the PXW-Z750 incorporates a built-in wireless capability. Including ONLINE button operation, this camcorder provides simple proxy transfer operation. This feature is extremely useful for 4K production. Further to this, the PXW-Z750 lets you send streaming images during image shooting. Moreover, with the CBK-DL1, you can connect two USB dongles and can more stably transfer a streaming picture.



CBK-DL1 attached to the new camcorder



ONLINE button



Embedded RJ-45 connector

Recording Media

The PXW-Z750 can shoot with the SxS PRO X which is the next generation of SxS card. It offers fast file transfer speeds up to 10Gbps (1250MB/s)*1 with the SBAC-T40, the new Thunderbolt™ 3 reader/writer. This is approximately 3 times faster than the SxS PRO+ and SBAC-US30.

*1 Based on Sony testing. Speeds vary depending on measurement conditions.

Specifications

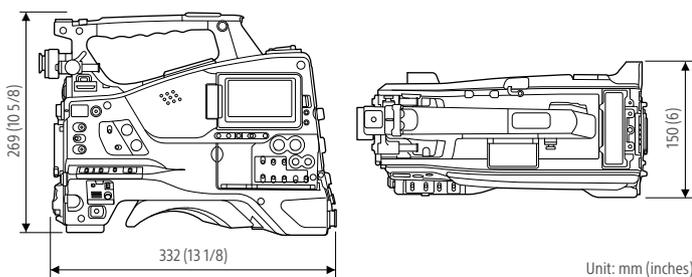
PXW-Z750	
General	
Mass	Approx. 3.8 kg (body only without lens, VF, Mic)
Dimensions (W x H x D)	Approx. 150 x 269 x 332 mm (excluding protrusions, body only)
Power Requirements	DC 12 V (11 V to 17.0 V)
Power Consumption	Approx. 43 W (while XAVC recording, color LCD on)
Operating Temperature	0 ~ 40°C
Storage Temperature	-20 ~ +60°C
Continuous Operating Time	Approx. 100min with BP-GL95B
Lens Mount	Sony 2/3 type bayonet mount
Camera Section	
Imager	2/3-type 3-chip 4K CMOS
Effective Resolution	3840 (H) x 2160 (V)
Built-in Optical Filters	1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND
Shutter Speed (Time)	59.94/p, 50/p: 1/60 sec. to 1/2000 sec. + ECS 29.97p: 1/40 sec. to 1/2000 sec. + ECS 25p: 1/33 sec. to 1/2000 sec. + ECS 23.94p: 1/32 sec. to 1/2000 sec. + ECS
Shutter Speed (Slow Shutter (SLS))	2, 3, 4, 5, 6, 7, 8, 16-frame accumulation
Slow & Quick Motion	1080p: Frame rate selectable from 1 fps to 60 fps / 72/75/80/90/96/100/110/120fps
Sensitivity (2000 lx, 89.9% reflectance)	F12(1080/59.94), F13(1080/50i) *High Sense Mode (Typical) F12(2160/59.94p), F13(2160/50p) *High Sense Mode (Typical)
Minimum Illumination	0.019 lx (F1.4, +42 dB, 16-frame accumulation)
White Balance	Preset (3200K), Memory A, Memory B/ATW
Gain Selection	-3, 0, 3, 6, 9, 12, 18, 24, 30, 36, 42 dB
S/N Ratio	62dB (Noise Suppression ON, 1920x1080 59.94i) (Typical)
Horizontal Resolution	2,000 TV lines or higher (3840 x 2160p mode) 1,000 TV lines or higher (1920 x 1080i mode)
Recording format (Video)	
XAVC Intra (XAVC-I QFHD 300):	3840 x 2160: 59.94p, 50p, 29.97p, 25p, 23.98p
XAVC Intra (XAVC-I HD 100):	1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p
XAVC Long (XAVC-L422 QFHD 200):	3840 x 2160: 59.94p, 50p
XAVC Long (XAVC-L420 QFHD 150):	3840 x 2160: 59.94p, 50p, 29.97p, 25p, 23.98p
XAVC Long (XAVC-L422 HD 50):	1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p
MPEG HD422:	1920 x 1080: 59.94i, 50i, 29.97p, 25p, 23.98p 1280 x 720: 59.94p, 50p, 29.97p, 25p, 23.98p
MPEG HD420:	1920 x 1080: 59.94i, 50i, 29.97p, 25p, 23.98p 1440 x 1080: 59.94i, 50i 1280 x 720: 59.94p, 50p
Recording Format (Audio)	
XAVC Intra (XAVC-I QFHD 300):	LPCM 24 bits, 48 kHz, 4 channels
XAVC Intra (XAVC-I HD 100):	LPCM 24 bits, 48 kHz, 4 channels
XAVC Long (XAVC-L422 QFHD 200):	LPCM 24 bits, 48 kHz, 4 channels
XAVC Long (XAVC-L420 QFHD 150):	LPCM 24 bits, 48 kHz, 4 channels
XAVC Long (XAVC-L422 HD 50):	LPCM 24 bits, 48 kHz, 4 channels
MPEG HD422:	LPCM 24 bits, 48 kHz, 4 channels
MPEG HD420:	LPCM 24 bits, 48 kHz, 4 channels
Recording Format (Proxy Video)	
XAVC Proxy:	AVC/H.264 Main Profile 4:2:0 Long GOP, VBR 1280 x 720, 9 Mbps (Target Rate) 1280 x 720, 6 Mbps (Target Rate) 640 x 360, 3 Mbps (Target Rate) 480 x 270, 1 Mbps, 500 kbps (Target Rate)
Recording Format (Proxy Audio)	
XAVC Proxy:	AAC-LC, 128 kbps, 2 channels
Input/Output	
Genlock Input	BNC (x1), 1.0 Vp-p, 75 Ω, unbalanced
Timecode Input	BNC (x1), 0.5 V to 18 Vp-p, 10 kΩ
SDI Input	SMPT-E ST292/ST259 standard compliant, 4-channel audio 1.5G Poolfeed Recording (upto 1080 59.94i)
Audio Input	CH1/CH2: XLR-type 3-pin (female) (x2), Line/AES/EBU/Mic+48V selectable LINE: +4, 0, -3 dBu AES/EBU: AES3 compliant MIC: -70 dBu to -30 dBu
Mic In	XLR-type 5-pin, female: -70 dBu to -30 dBu
WRR (Wireless Microphone Receiver)	D-sub 15-pin Analog CH1: -40 dBu Digital (CH1/CH2): -40 dBFS
SDI Output	BNC x2 12G(QFHD/60p) / 3G(HD/60p) / 1.5G(HD/i) 4ch Embedded Audio
Video Output	BNC, SD analog composite/HD-Y selectable
Audio Output	XLR-type 5-pin, female: +4/0/-3dBu
Timecode Output	BNC, 1.0 Vp-p, 50 Ω
Earphone Output	Stereo mini jack (x1) -11 dBu (reference level output, maximum monitor volume, 16 Ω load)
DC Input	XLR-type 4-pin, male, 11 V to 17 V DC
DC Output	Round type 4-pin, 11 V to 17 V DC, 1.8 A maximum rated current
Lens	12-pin, lens power source (11 V to 17V DC, 1.0 A maximum rated current)

PXW-Z750	
Remote	8-pin
Light	2-pin
Camera Adapter	D-sub, 50-pin (x1) (only for Japan model)
Ethernet	RJ-45 (x1), 100BASE-TX: IEEE 802.3u, 10BASE-T: IEEE 802.3
USB	4pin (A type) x2, 4pin (B type)
HDMI	A type, 19-pin (x1)
Viewfinder	20-pin IF for HDVF Series Viewfinder
Audio Performance	
Frequency Response	20 Hz to 20 kHz (±3 dB or less)
Dynamic Range	90 dB (typical)
Distortion	0.08% or lower (-40 dBu input level)
Headroom	20 dB (factory default) (20, 18, 16, 12dB), EBUL
Monitoring	
Viewfinder	Option
Built-in LCD Monitor	Color LCD, Screen size: 8.8 cm (3.5 inch) diagonal, Aspect ratio: 16:9, Number of pixels: 960 (H) x 540 (V) for Video display, Audio level, TC, battery and media remaining capacity
Other Functions	
Built-in Speaker	(x1)
Media SxS Card Slots	Number of slots: 2
Media SD Card Slots	Proxy (1), Utility (1)
HDR	(OETF): HLG/S-Log3, (Color Space): BT.2020/S-Gamut3/S-Gamut3.cine
GPS	Yes
Built-in Network Module	Yes
NFC	Yes
Supported Media	
High Resolution Video/Audio	SxS card SDXC card (SD Card Adapter, MEAD-SD02)
Proxy Video/Audio and utility	SDXC/SDHC
Supported Media	
Supplied Accessories	Shoulder Belt (1) Cold Shoe Kit (1) Lens Mount Cap (1) USB wireless LAN module (IFU-WLM3) (1) Protective Cap (1) Operating Instructions (CD-ROM) (1) Before using this unit (1)

Optional Accessories

			
SBP-240F/SBP-120F SxS PRO X/SxS Pro+/SxS Pro/SxS-1 memory	SBAC-T40 SxS memory card Thunderbolt 3 reader/writer	HDVF-EL20 0.7-inch OLED Viewfinder	HDVF-EL30 0.7-inch OLED Viewfinder
			
CBK-DL1 USB expansion adapter	PWS-110RX1A Network RX station	BP-GL95A Lithium-ion Battery pack	HDVF-L10 3.5-inch LCD Color Viewfinder
			
ECM-680S Shotgun-type electret condenser microphone (Stereo)	ECM-678/EC-0.5X3F5M* Shotgun-type electret condenser microphone (Monaural) <small>* Requires EC-0.5X3F5M to connect to MIC IN</small>	DWR-S03D/DWA-SLAS1 Digital wireless receiver with adapter	RM-B170 Remote control unit

Dimensions



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