

## PXW-Z750



### **New benchmark for 4K, HDR and HD image quality**

Capture beautiful 4K imagery with the deep of depth of field made possible by 3-chip 2/3-type CMOS sensor. The Z750 is Sony's first shoulder-mount camcorder with a global shutter to eliminate flash banding and "jello" effects. It sets a new class-leading standard for 4K, HDR and HD image quality for reality TV, documentary, news and sports production. In fast-moving applications where a second take is impossible, Z750 is the ideal choice.

### **Saving time and money**

Delivering highest quality 4K with HD era workflows wastes time and money. The Z750's latest generation XAVC-L422 QFHD 200 codec combined with high-speed SxS Pro media radically reduce real-world turnaround times. Premium 4K becomes deliverable on almost any project using the PXW-Z750.

### **Transformative cloud-based collaboration**

Z750 is at the vanguard of seamlessly integrating Cloud-based production tools with familiar, easy-to-use interfaces and proven Sony reliability. Build stories fast, with secure, direct access from the studio to camcorders out in the field with XDCAM air. Distribute content for preview and editing with stakeholders across the world using Sony's Ci Media Cloud.

### **3-chip 2/3-type CMOS Sensor with Global Shutter**

The PXW-Z750 incorporates a newly developed 3-chip 2/3" 4K CMOS sensor optical block with a wide colour gamut provides exquisite picture quality with true-to-life colour reproduction, high sensitivity and low noise level for a wide range of shooting scenarios.

### **Versatile B4 ENG lens options**

Thanks to the versatile 3-chip 2/3-type size sensor block and traditional B4 lens mount, the Z750 allows you to install a variety of B4 ENG lenses including either 4K or HD. This flexible lens options supports a variety of shooting applications while saving cost by leveraging existing lens investments.

### **High Dynamic Range and wider, richer colours**

PXW-Z750 can record HDR using Sony S-Log3 or Hybrid Log Gamma (HLG). The camera's wide colour gamut supports extended Sony S-Gamut3 and S-Gamut3. Cine colour spaces, as well as the industry standard ITU-R BT.2020 colour space.

- S-Log3 has a proven track record for premium applications, capturing

the maximum dynamic range from the sensors, for the most creative colour grading processes.\*

- Industry standard HLG delivers content quickly without additional colour grading, making it an ideal choice for day-to-day shooting, viewing, editing and broadcasting workflows.

\* QFHD only.

### **High quality at lower bitrates**

As well as the established XAVC-I QFHD Class 300 4K and standard MPEG HD422 codecs, the PXW-Z750 also supports the latest generation XAVC-L422 QFHD 200 codec. Compressing 4K Ultra HD images with a LongGOP frame structure, this achieves significant bitrate savings over previous Intra Frame codecs while maintaining superb 4K image quality. Lower data rates increase recording times while reducing storage requirements. Uncompromised picture quality is ensured by 10-bit quantisation and 4:2:2 colour sampling, making the PXW-Z750 ideal for HDR productions. A wide range of 4K codecs provide the flexibility to select the recording format that is best suited for the requirements of the production you are working on.

### **Superb slow motion**

Ideal for sports and nature programmes, the PXW-Z750 can acquire footage in 60fps in QFHD and 120fps in Full HD for beautifully smooth, finely-detailed slow-motion playback.

### **Cache recording**

Never miss a shot with advanced cache recording in both 4K and Full HD modes.

### **Next generation wireless ENG workflow**

Built-in wireless connectivity enables advanced workflow production features including live streaming, recording hi-res and proxy files, FTP transfer and even remote control from a smartphone or tablet\* via Wi-Fi. Wireless workflow is made even more efficient using XDCAM air, Sony's professional cloud service including dual-link cellular operation.\*\*

\* Requires Content Browser Mobile and device running iOS 9.0-10.3 or Android 4.4-7.1

\*\* Requires XDCAM air subscription and CBK-DL1 USB Extension Adaptor.

### **Seamless wireless audio workflow**

PXW-Z750 is compatible with Sony's DWX series of digital wireless microphone systems offering ENG and documentary teams the benefits of an all-digital audio workflow, including robust end-to-end encryption for truly secure operation.\*

- Wireless transmitter parameters can be controlled directly from the PZW-Z750 using the Cross Remote function.
- Transmitter power save mode synchronises with the camera's on/off control, and is controllable by assignable buttons to save transmitter battery life.
- Audio and video are precisely synchronized, ensuring no delays or lip-sync problems.
- Power save status and receiver RF levels are displayed in the viewfinder.

\* For details, please consult local sales company.

**Lightning-fast transfers with latest generation media**

The PXW-Z750 supports latest-generation SxS Pro X media, enabling very high speed file transfers at up to 10Gbps (1250MB/s)\* with the SBAC-T40 Thunderbolt™ 3, SxS card reader/writer. Transfers are approximately three times faster than previous generation media/reader combinations, dramatically accelerating workflows for any application and bringing down production costs.

\*Based on Sony internal testing. Transfer speeds vary and are dependent on host devices, the OS version or usage conditions.

General	
Mass	Approx. 3.8 kg (body only without lens, VF, Mic)
Dimensions (W x H x D)	Approx. 150×269×332 mm (excluding protrusions, body only)
Power Requirements	DC 12 V (11 V to 17.0 V)
Power Consumption	Approx. 41 W (while XAVC recording, color LCD on)
Operating Temperature	0 ~ 40°C
Storage Temperature	-20 ~ +60°C
Continuous Operating Time	Approx. 110 min 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)	59.94i/p, 50i/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	2160p: Frame rate selectable from 1 fps to 60 fps 1080p: Frame rate selectable from 1 fps to 60 fps /72/75/80/90/96/100/110/120 fps
Sensitivity (2000 lx, 89.9%)	F12 ( 1080 / 59.94i ), F13 ( 1080 / 50i ) *High Sense Mode ON (Typical)

reflectance)	F12 ( 2160 / 59.94p ), F13 ( 2160 / 50p ) *High Sense Mode ON (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, 1920 x 1080 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
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-L420 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 1920 x 1080, 6 Mbps, 9 Mbps (Target Rate) 1280 x 720, 6 Mbps, 9 Mbps (Target Rate) 640 x 360, 3 Mbps (Target Rate) 480 x 270, 1 Mbps, 500 kbps (Target Rate)
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### Recording Format (Proxy Audio)

XAVC Proxy	AAC-LC, 128 kbps, 2 channels
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### 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	SMPTE 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 (Both SDI are selectable from 12G, 3G and 1.5G) 4ch Embedded Audio
Sync 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) -12 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 17 V DC, 1.0 A maximum rated current)
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) x 2, 4pin (B type)
HDMI	A type, 19-pin (x1) output up to 3840x2160
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, 12 dB), 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-Gamut 3/S-Gamut 3.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	

Supplied Accessories

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)



