SONY

Compact handy camcorder
delivers broadcast quality 4K and Full-HD

Ready for any shooting scenario, Sony's PXW-Z150 handy professional camcorder delivers stunning 4K image quality, 120fps HFR Full-HD slow-motion and built-in advanced networking for live streaming and wireless workflow.

PXW-Z150
Solid-State Memory Camcorder

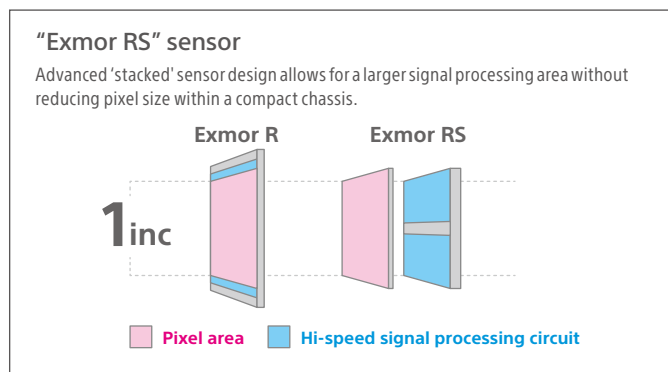XDCAM 4K Exmor RS CMOS Sensor XAVC MPEG HD422 Wi-Fi CERTIFIED

Breakthrough 4K imaging performance

Stunning imagery with world's first 1.0 type stacked CMOS sensor*

*for professional camcorder

1.0type 120fps HFR

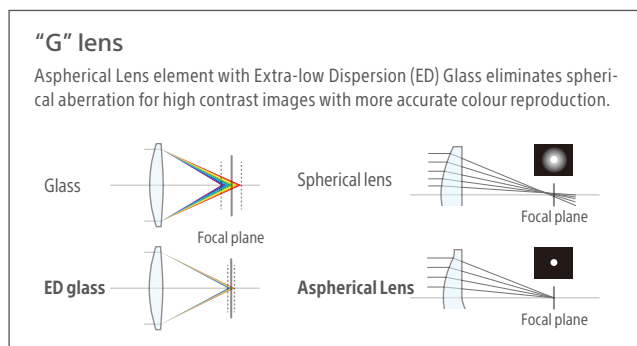### Revolutionary imaging performance with Exmor RS™

To deliver imaging performance previously impossible for a compact camcorder, Sony has developed the world's first 1.0 type stacked CMOS image sensor for professional video applications. A 2x increase in read-out speed, compared to a conventional 1.0 type sensor, enables beautiful 5x slow motion image capture up to 120fps in Full HD and high resolution 4K recording with full pixel readout without binning.

"Exmor RS" sensor

Advanced 'stacked' sensor design allows for a larger signal processing area without reducing pixel size within a compact chassis.

Exmor R   Exmor RS

1inc

Pixel area   Hi-speed signal processing circuit

Max. 24×zoom

Sony "G" lens with maximum 24× zoom

To maximise the quality of your images, the Z150 has a stunning optical 12x zoom lens that offers high resolution and contrast across the entirety of the image. Sony's advanced Clear Image Zoom feature doubles magnification to 18x when shooting in 4K QFHD and 24x in HD, to fully exploit the imaging capabilities of the Z150's large 1.0 type stacked sensor.

"G" lens

Aspherical Lens element with Extra-low Dispersion (ED) Glass eliminates spherical aberration for high contrast images with more accurate colour reproduction.

Glass

Focal plane

Spherical lens

Focal plane

ED glass

Aspherical Lens

Focal plane

XAVC

4K QFHD Long GOP 4:2:0 8bit 100Mbps
Full HD   Long GOP 4:2:2 10bit 50Mbps

MPEG2 HD
AVCHD

Flexible 4K and Full HD recordings

Stunning 4K picture performance is supported with 4K QFHD (3840x2160) XAVC Long GOP at 100Mbps, while integration with established broadcast workflows is simplified with Full HD recording in XAVC Long GOP(4:2:2/10bit 50Mbps) and MPEG-2 HD (50Mbps/35Mbps). You can even use AVCHD to further expand workflow flexibility. However you want to shoot, the Z150 delivers.

The perfect handy camcorder
Lightweight and easy to use with integrated Wi-Fi

1.9 kg camerabody
3 Independent lens rings

Compact and lightweight body

The Z150 is ergonomically designed to provide a lightweight and easy-to-use shooting experience. Three manual, independent lens rings enable smooth, natural adjustment of focusing, zooming and iris control. The camcorder can also be used in full-auto mode or completely manual for maximum creative control. Exceptional 6.3W power efficiency offers high performance within a compact handycam body without compromising battery life. Up to 400 minutes with optional NP-F970.*

* While recording XAVC 1080/50i or 60i, 50Mbps with LCD on.

3.5 type LCD panel

OLED Viewfinder Wide viewing-angle

High resolution monitoring

The Z150 gives you precise monitoring and low latency, however you choose to shoot, with its advanced, wide viewing-angle and high contrast 0.39 type 1440K dots OLED electronic viewfinder (EVF) with large eye-cap, and an easily adjustable, flip-out 3.5 type 1550K dots LCD panel.

Multi-Interface (MI) Shoe

The Z150 takes advantage of Sony's flexible Multi-Interface (MI) Shoe, which provides power, signal connections and coordinated on/off switching to compatible Sony accessories. For example, you can connect and control Sony wireless microphone systems such as the UWP-D11 or UWP-D12 or attach the HVL-LBPC light*.

* All sold separately. HVL-LBPC is controlled but not powered by Z150.

Wireless
Networked for high mobility

The Z150 has advanced networking capabilities that give you more mobility in your work - FTP files directly from the camcorder or live stream from any event using built-in Wi-Fi features with no accessories required. Sony's unique QoS technology* dramatically improves the clarity that's possible on a wireless connection, giving you better pictures even with the limitations of today's real-world networks.

You can also remotely control the PXW-Z150 with a smartphone or tablet, including the ability to adjust settings such as focus, zoom, iris, white balance, REC START/STOP and more using Sony's Content Browser Mobile** software.

* QoS will initially require a firmware update and PWS-100RX1 receiver.
** The Content Browser Mobile application can be downloaded from the Google Play Store or App Store.

Wide choice of connections including 3G-SDI

There's no need to worry about adapters as the Z150 provides a wide variety of built-in connectivity options including 3G-SDI, HDMI, Multi/Micro USB, professional audio XLR terminals, REMOTE and Composite (RCA). A supplied Sony cold shoe adaptor kit provides you with more flexibility for mounting accessories.

Dual media slots for recording flexibility

To extend recording times and workflow flexibility, the Z150 is equipped with two memory card slots and is compatible with SDXC and SDHC cards.

"RELAY" mode automatically switches recording from the first to the second memory card when the first is full, while "SIMUL" mode permits simultaneous recording to two memory cards (for example to create an immediate back-up version).

Specifications

General — PXW-Z150

	PXW-Z150
General	
Mass	Approx. 1895g (Body only)
	Approx. 2270 g (with lens hood, ,eyecup, NP-F770 battery)
Dimensions (W x H x D)*	171.3 × 187.8 × 371.3 mm (With the accessories (lens hood, large eyecup), excluding the grip belt and including the projecting parts)
Power Requirements	DC In: 8.4V, Battery: 7.2 V
Power Consumption	Approx. 6.3 W (while recording with viewfinder and XAVC HD 1080/60i 50 Mbps)
	Approx. 6.6 W (while recording with LCD and XAVC HD 1080/60i 50 Mbps)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Battery Operating Time	Approx. 260 min. with NP-F770 battery (while recording with LCD, XAVC 1080/60i, 50 Mbps)
	Approx. 400 min. with NP-F970 battery (while recording with LCD, XAVC 1080/60i, 50 Mbps)
Lens	
Lens Mount	Fixed
Zoom Ratio	12x (optical), servo
Focal Length	f = 9.3 - 111.6 mm equivalent to f = 29.0 - 348.0 mm on 35 mm lens (16:9)
Iris	F2.8 - F4.5 auto/manual selectable
Focus	AF/MF selectable, 10 mm to ∞ (Wide), 1000 mm to ∞ (Tele)
Image Stabilizer	On/Off selectable, shift lens
Filter Diameter	M62 mm
Camera Section	
Imaging Device (Type)	1.0-type (13.2 mm x 8.8 mm) back-illuminated Exmor RS CMOS sensor
Effective Picture Elements	3840 (H) x 2160 (V)
Built-in Optical Filters	ND filters OFF: CLEAR 1: 1/4ND 2: 1/16ND 3: 1/64ND
Minimum Illumination	1.7 lux (Low Lux)
Shutter Speed	[60i]: 1/8 - 1/10,000 (1/6 - 1/10,000 when shooting with 24p) [50i]: 1/6 -1/10,000
Slow & Quick Motion Function	[60i]: XAVC HD: Frame rate selectable 1.2.4.8.15.30,60 fps
	[50i]: XAVC HD: Frame rate selectable 1.2.3.6.12.25,50 fps
	[60i]: MPEG HD: Frame rate selectable 1.2.4.8.15.30 fps
	[50i]: MPEG HD: Frame rate selectable 1.2.3.6.12.25 fps
	[60i]: AVCHD: Frame rate selectable 1.2.4.8.15.30,60 fps
	[50i]: AVCHD: Frame rate selectable 1.2.3.6.12.25,50 fps
Super Slow Motion Function	[60i]: XAVC HD: Frame rate selectable 120 fps
	[50i]: XAVC HD: Frame rate selectable 100 fps
White Balance	Preset (Indoor: 3200K, Outdoor: 5600K±7 steps, Color temparature set range: 2300-15000K), Onepush A, B, Auto selectable
Gain	-3, 0, 3, 6, 9, 12,15, 18, 21, 24, 27, 30, 33 dB, AGC
Gamma Curve	Selectable

Input/Output — PXW-Z150

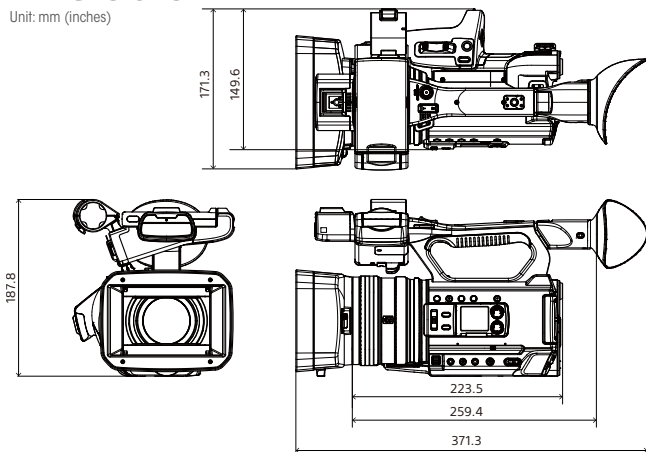|	PXW-Z150
Input/Output	
Audio Input	XLR-type 3-pin (female) (x2), line/mic/mic +48 V selectable
Video Output	Integrated into Multi/Micro USB jack (x1), RCA pin(x1), Composite 1.0Vp-p, 75 Ω
Audio Output	Integrated into Multi/Micro USB jack(x1), RCA pin(Monaural)(x1)
SDI Output	BNC (x1), 3G/HD/SD SMPTE ST 424/ST 292-1/ST 259 standards
HDMI Output	HDMI connector (Type A)
USB	Multi/Micro USB jack (x1)
Headphone Output	Stereo mini jack (x1)
Speaker Output	Monaural
DC Input	DC jack
Remote	Stereo mini-minijack (ø2.5 mm)
Monitoring	
LCD Monitor	8.8 cm (3.5 type), Approx. 1.56M dots
Viewfinder	1.0cm(0.39 type)OLED Approx. 1.44M dots
Built-in Microphone	
	Omni-directional stereo electret condenser microphone
Media	
Type	MS/SD(1),SD(1)
Wi-Fi/NFC	
Supported Format	IEEE 802.11 b/g/n
Frequency Band	2.4 GHz bandwidth
Security	WEP/WPA-PSK/WPA2-PSK
NFC	NFC Forum Type 3 Tag compliant
Supplied Accessories	
	Lens hood (1)
	Large eyecup (1)
	Shoecap (1)
	Accessory shoe kit (accessory shoe (1), accessory shoe plate (1), screws (4))
	USB cable (1)
	AC Adaptor (AC-L100 C) (1)
	Power cord (mains lead) (1)
	Rechargeable battery pack (NP-F770) (1)
	Charger(BC-L1) (1)
	Wireless Remote Commander (RMT-845) (1)
	Lithium battery (CR2025 for the Wireless Remote Commander) (1), Pre-installed to the Wireless Remote Commander
	Operating Guide (2)
	CD-ROM "Manuals for Solid-State Memory Camcorderr" (1)
	Warranty (1)

* The values for dimensions are approximate.

	Format	Bitrate	Definition	Recording frame rate	Audio format	Recording time 64G SD card
4K	XAVC Long	100Mbps	3840 x 2160	29.97p, 25p, 23.98p	Linear PCM 2ch, 24bit, 48kHz	Approx. 65 min
	MPEG-4 AVC/H.264	60Mbps		29.97p, 25p, 23.98p		Approx. 100 min
HD	XAVC Long	50Mbps	1920×1080	59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p,		Approx. 120 min
	MPEG-4 AVC/H.264		1280×720	59.94p, 50p,		
		35Mbps	1920×1080	59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p,		Approx. 170 min
		25Mbps	1920×1080	59.94i, 50i,		Approx. 220 min
	MPEG HD 4:2:2 (MPEG-2 422P@HL)	50Mbps	1920×1080	59.94i, 50i, 29.97p, 25p, 23.98p		Approx. 120 min
			1280×720	59.94p, 50p		
	MPEG HD 4:2:0 (MPEG-2 MP@HL)	35Mbps	1920×1080	59.94i, 50i, 29.97p, 25p, 23.98p	Linear PCM 2ch, 16bit, 48kHz	Approx. 170 min
			1440×1080	59.94i, 50i		
			1280×720	59.94p, 50p		
	AVCHD MPEG-4 AVC/H.264 AVCHD 2.0 format compatible	28Mbps	1920×1080	59.94p, 50p,	Linear PCM 2ch, 16bit, 48kHz Dolby Digital 2ch, 16bit, 48kHz	Approx. 290 min
		24Mbps	1920×1080	59.94i/50i/29.97p/25p/23.98p,		Approx. 340 min
			1280×720	59.94p, 50p,		
		17Mbps	1920×1080	59.94i/50i/29.97p/25p/23.98p,		Approx. 450 minz z
			1280×720	59.94p, 50p,		
		9Mbps	1280×720	59.94p, 50p,		Approx. 750 min

Accessories

2NP-F970B Rechargeable Battery pack

ACC-L1BP AC Adaptor/Charger/ Battery Kit

HVL-LBPC LED Battery Video Light

UWP-D11/UWP-D12 Wireless Microphone Package

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

ECM-VG1 Electret Condenser Microphone

SDXC 128GB SDXC Memory Card

LCS-G1BP Soft Carrying Case

RM-1BP Remote Commander

VCT-SP2BP Camcorder Support

Dimensions

Unit: mm (inches)

171.3
149.6
187.8
223.5
259.4
371.3

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