

## Press Release

### **Sony Unveils Professional PXW-Z100 4K Handheld XDCAM Camcorder** *Camcorder uses Sony's XAVC recording format and XQD media cards*



*4K Handheld XDCAM Camcorder PXW-Z100*

**Hong Kong, October 24, 2013** – Sony today announced the PXW-Z100, a professional 4K handheld XDCAM camcorder featuring a 1/2.3" Exmor™ R CMOS sensor. The sensor has total of 18.9 million pixels and is able to acquire stunning 4K content (4096x2160) at 50p or 60p. The camcorder marks Sony's latest step in expanding the 4K world to everyone, from high-end cinema to corporate and event productions.

The PXW-Z100, together with the fixed 4K-compatible high-performance G Lens™, weighs less than 3kg. It uses the XAVC recording format first used in the PMW-F55 CineAlta™ camera. As with the F55, 4K (4096 x 2160, 50p or 60p, 4:2:2, Intra-frame, 10-bit recording in MXF file format) is possible at a high-bit rate of 500Mbps or 600Mbps. QFHD (3840x2160) and HD (1920x1080) resolutions can also be selected, both of which are compatible with most 4K TV's.

Since the PXW-Z100 is based on the same shooting ergonomics as a conventional handheld professional camcorder, it is possible to record 4K content without extra equipment. In addition, during editing, downscaling from 4K to HD provides new possibilities for HD content production.

#### **Key features:**

##### **1. 4K (4096x2160) 50p or 60p shooting**

The camcorder provides extremely high sensitivity due to the back-illuminated Exmor™ R CMOS sensor. With 8 million effective pixels, the 1/2.3" sensor captures 4K images at 50p or 60p. The inbuilt high-performance G Lens offers maximum shooting flexibility, including a wide angle of 29.5mm (equivalent to 35mm) and 20x powerful optical zoom.

##### **2. XAVC recording format at 4K 50p/60p, 4:2:2 10-bit at 500/600Mbps, HD at up to 223Mbps**

The PXW-Z100 uses Sony's XAVC recording format first employed in the PMW-F55 CineAlta™ 4K camera. MPEG-4 AVC/H.264 compression is used for HD (1920x1080),

QFHD (3840x2016) and 4K (4096x2160) content. Image sampling is 4:2:2 10-bit, with an intra-frame system that compresses each frame individually at a maximum bit rate of 500Mbps or 600Mbps during 4K 50p or 60p recording respectively and 223Mbps during HD 50p or 60p recording. The XAVC format is ideal for those looking to implement a high-quality, secure and worry-free workflow.

A non-chargeable firmware update is planned for the middle of 2014 to support the Long GOP mode for extended 4K recording time and to add support for AVCHD recording.

### **3. XQD Memory Card recording**

The XQD Memory Card is a new standard of solid state memory, which was recently defined by several industry leading companies. XQD uses the ultra-fast PCI Express interface and Sony's unique camera processor to enable stable video recording at 500Mbps or 600Mbps. The PXW-Z100 features two XQD Memory Card slots. Multiple cards can be used in various ways, such as for relay recording. When the first card becomes full, recording continues on the second card without a break.

*\* The use of new S Series XQD cards (QD-S32E or QD-S64E which supports 180MB/s transfer speed) is recommended.*

### **4. HDMI interface for 4K output and 3G HD-SDI interface for HD output**

The HDMI interface on the PXW-Z100 can output 4K as a 50p/60p signal. When the PXW-Z100 is connected to a Sony 4K-compatible BRAVIA™ TV, the recorded 4K image can be displayed in 4K 50p/60p quality. A future firmware upgrade is planned to provide compatibility with the new HDMI 2.0 standard and enable 4K 50p/60p output to a wider range of devices. Other features include a 3G HD-SDI interface that supports output up to HD 60p. It also supports HD output during 4K recording.

### **5. Paint function for more creative freedom**

The PXW-Z100's paint function enables multiple image parameters to be adjusted including gamma curve, black level, skin detail and colour. The range of settings is similar to those available in the PMW-F55. Together with other setting options, parameter settings can be recorded as a camera profile onto a memory card. The recorded camera profile can then be used to set the same parameters in another PXW-Z100 to enable the matching of quality and image tones when using a multi-camera setup.

### **6. Remote control with WiFi**

Focus, zoom, aperture settings and 'record start/stop' can be remote controlled using the browser function of a smartphone or tablet.

### **Availability**

The professional 4K handheld XDCAM camcorder PXW-Z100 from Sony will be available in November 2013 at HK\$45,290, and comes with a two year warranty only through authorised Sony dealers. To provide the seamless 4K shooting experience with the PXW-Z100 camcorder, a

32GB S Series XQD media card is supplied for free during November 1, 2013 to February 28, 2014, while stock lasts.

For customer enquiries, please contact Sony hotline service at (852) 2345-2966.

**About Hong Kong Marketing Company**

Hong Kong Marketing Company (HKMC), a division of Sony Corporation of Hong Kong Limited, provides sales, marketing and after sales services for Sony's consumer electronics products as well as broadcast and professional products in Hong Kong and Macau. For more information on Sony's products and services, please visit its web site on [www.sony.com.hk](http://www.sony.com.hk).

**About make.believe**

"make.believe" (make dot believe) is a Group-wide brand message that unites Sony's communications initiatives across electronics, games, movies, music, mobile phones and network services. "make.believe" symbolises the spirit of Sony – the power of creativity, the ability to turn ideas into reality and the belief that anything you can imagine, you can make real.

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**Product specifications of Sony 4K camcorder PXW-Z100:**

<b>Model</b>	<b>PXW-Z100</b>
<b>Lens</b>	
Lens Mount	Fixed
Zoom Ratio	20x (optical), servo/manual
Focal Length	f=4.1 - 82.0 mm equivalent to f=30.0 - 600 mm on 35 mm lens (17:9 4096 x 2160) equivalent to f=31.5 - 630 mm on 35 mm lens (16:9 3840 x 2160, 1920 x 1080)
Iris	F1.6 - F11 auto/manual selectable
Focus	AF/MF selectable, 10 mm to ∞ (Wide), 800 mm to ∞ (Tele)
Image Stabilizer	ON/OFF selectable, shift lens
Filter Diameter	M72 mm
<b>Camera Section</b>	
Imaging Device (Type)	1-chip 1/2.3 type back-illuminated “Exmor R” CMOS Sensor
Imaging Device (Pixel Count)	18.9M (total), 8.8M (effective)
Built-in Optical Filters	OFF: Clear, 1: 1/4ND, 2: 1/16ND, 3: 1/64ND
Minimum Illumination	60P: 4 lux (1/30 Shutter Speed) 50P: 3 lux (1/25 Shutter Speed)
Shutter Speed	1/3 sec to 1/9,000 sec
Slow & Quick Motion Function	1080p: Frame rate selectable 1,2,4,8,15,30,60 fps in NTSC mode from 1,2,3,6,12,25,50 fps in PAL mode
White Balance	Preset (Outdoor: 5600K), A, B
Gain	0, 3, 6, 9, 12, 15, 18, 21, 24, 27 dB, AGC
Gamma Curve	Selectable
<b>Input/Output</b>	
Audio Input	XLR-type 3-pin (female) (x2), line/mic/mic +48 V selectable
Composite Output	Composite Video Out (RCA pin)
Audio Output	RCA pin
SDI Output	BNC (x1), HD/SD selectable
Timecode Input / Output	RCA pin (x1) IN/OUT selectable
USB	mini-B/USB2.0 Hi-speed/mass-storage (x1), TypeA/USB2.0 Hi-speed /Host (x1)
Headphone Output	Stereo mini jack ø3.5 mm (x1)
Speaker Output	Monaural
DC Input	DC jack
Remote	Stereo mini mini jack ø2.5 mm (x1)
HDMI Output	Type A (x1)
<b>Monitoring</b>	
Viewfinder	0.45-inch type color LCD: 852 [H] × 3 [RGB] × 480 [V], 16:9
Built-in LCD Monitor	3.5-inch type Xtra Fine LCD™: 852 [H] × 480 [V] × 3 [RGB], 16:9
<b>Built-in Microphone</b>	

Type	Omni-directional stereo electret condenser microphone.
<b>Media</b>	
Type	XQD x2 (for XAVC) Memory Stick Duo™ and SD/SDHC/SDXC compatible x1 (for AVCHD) *AVCHD is planned to be updated in the future SD/SDHC/SDXC x1 (for Utility SD slot)
<b>General</b>	
Recording/Playback Time (with QD-S64E (64 GB) memory card)	4K 59.94p mode: Approx 10 min 4K 50p mode: Approx 15 min 4K 29.97p mode: Approx 20 min 4K 25p mode: Approx 25 min 4K 23.98p mode: Approx 30 min HD 59.94p, 50p mode: Approx 30 min HD 29.97p, 25p mode: Approx 60 min HD 23.98p mode: Approx 75 min
Recording Format (Audio)	LPCM 8CH (2CH recording/playback), 24-bit, 48-kHz
Recording Format (Video)	XAVC (AVC/H.264 High 4:2:2 Intra Profile VBR) XAVC 4K 4096 x 2160 or 3840 x 2160 59.94p: 600 Mbps max, 50p: 500 Mbps max 29.97p: 300 Mbps max, 25p: 250 Mbps max, 23.98p: 240 Mbps max  XAVC HD 1920 x 1080 59.94p, 50p: 223 Mbps max 29.97p, 25p: 113 Mbps max, 23.98p: 89 Mbps max
Battery Operating Time	Approx. 165 mins with NP-F970 battery (while recording, EVF ON, LCD monitor Off)
Power Consumption	Approx. 14.9 W (while recording, EVF On) Approx. 15.2 W (while recording, LCD monitor On)
Power Requirements	7.2 V (battery pack); 12.0 V (AC Adaptor)
Dimensions (W x H x D)	Approx. 189 x 193 x 362 mm, 7 7/16 x 7 19/32 x 14 1/4 inches (without protrusions)
Mass	Approx 2.46 kg, 5 lb 6.75 oz Approx. 2.91 kg, 6 lb 6.7 oz (with lens hood, eyecup, NP-F970 battery, ECM-XM1 Mic.,)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
<b>Supplied Accessories</b>	
Supplied Accessories	Lens hood (1), Pre-installed to the Camcorder EVF eyecup (1) USB cable (1) AV connecting cable (1) AC-NB12A AC adaptor (1) HDMI Cable (1)

	Wi-Fi dongle (1) ECM-XM1Microphone (1) Operating instructions (1) AC Cable (2) Battery Charger (1) NP-F970 Battery (1) Warranty (1) CD-ROM: Operating instructions in PDF (1)
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