

SONY



PXW-Z450

4K XDCAM® shoulder-mount 2/3-inch camcorder

4K

Enter the new world of 4K without leaving your ENG operating style behind. Sony's groundbreaking PXW-Z450 combines 4K resolution (3840 x 2160) with familiar shoulder-mount ergonomics and even takes 2/3-inch B4 lenses. Here's the ideal 4K acquisition tool for news, documentaries, live events and general field production.

Now with firmware V3.00, the camera offers High Dynamic Range (HDR) recording and output, 4K and HD simultaneous recording to a single card and - using the CBKZ-Z450QL license, sold separately - 4K 59.94p/50p output.

The heart of the PXW-Z450 is Sony's innovative 2/3-inch Exmor R™ CMOS sensor, which delivers stunning images in 4K and HD. The B4 lens mount enables you to use existing HD lenses or attach the new generation of 4K lenses to achieve images of incredible texture and detail.

The PXW-Z450 is everything you expect in a Sony shoulder-mount camcorder. Enjoy the same fine-tuned weight balance as the PXW-X400. Experience low power consumption and convenient networking. Select from a range of Sony's XAVC™ 4K and HD recording formats. Achieve critical focus with a choice of HDVF Series OLED viewfinders, sold separately.

For even greater production flexibility, the camera is expected to provide 4K 59.94p/50p output (via software upgrade in 2017) and simultaneous 4K/HD recording (in 2017).

So enter the new world without leaving your past behind, with Sony's PXW-Z450.

Stunning picture quality

The heart of this innovative camera is an original imager: Sony's 2/3-inch Exmor R CMOS sensor with 3840 x 2160 pixels. The Exmor R design enables the PXW-Z450 to combine native 4K resolution with high sensitivity.

Exmor R

Familiar B4 lens mount

Thanks to the camcorder's B4 lens mount, you can use a full range of ENG lenses, including the HD lenses you may already have. Or mount next-generation 4K lenses for images of spectacular drama and detail.



PXW-Z450 with 4K lens



PXW-Z450 with HD lens

Ideal front/rear weight balance

Shooters love the perfectly honed front/rear balance of our PXW-X400. So it's no surprise that we retained this balance for the PXW-Z450. When you use typical ENG lenses, your right hand won't need to support weight. Your shooting will be more stable – and more comfortable – hour after hour.



XAVC Intra and XAVC Long recording at 50p/59.94p

With the PXW-Z450, you can shoot in HD now and switch over to 4K whenever you're ready. Capture 4K (3840 x 2160) 50p and 59.94p with the well accepted XAVC Intra and XAVC Long codecs. Or choose from four HD codecs: XAVC Intra, XAVC Long or the de facto standard MPEG HD-422 and MPEG HD recording.

XAVC

XAVC Intra	3840 x 2160/59.94p, 50p, 29.97p, 25p, 23.98p 1920 x 1080/59.94p, 50p, 29.94p, 25p, 23.98p, 23p 1280 x 720/59.94p, 50p
XAVC Long	3840 x 2160/59.94p, 50p, 29.97p, 25p, 23.98p 1920 x 1080/59.94p, 50p, 29.94p, 25p, 23.98p, 23p 1280 x 720/59.94p, 50p
MPEG HD-422	1920 x 1080/59.94p, 50p, 29.97p, 23.98p, 23p 1280 x 720/59.94p, 50p, 29.97p, 23.98p, 23p
MPEG HD (422)	1920 x 1080/59.94p, 50p, 29.97p, 23.98p, 23p 1440 x 1080/59.94p, 50p 1280 x 720/59.94p, 50p
MPEG IMX	720 x 480/59.94p, 720 x 576/50p
DV/AVC	720 x 480/59.94p, 720 x 576/50p

Simultaneous 4K/HD recording

To support parallel 4K and HD production, the Z450 enables you to simultaneously capture 4K (3840 x 2160) and HD to a single card.

Low power consumption

Meticulous circuit design enables power consumption as low as 24 W (normal XAVC recording, color LCD on). So you can record continuously with superb battery life.

High Dynamic Range (HDR)

High Dynamic Range is sweeping the television market – and gaining the attention of more and more producers. The PXW-Z450 delivers stunning HDR recording and HDR output in 4K and HD alike. Hybrid Log-Gamma (HLG) with BT.2020 color space means that your results will look amazing on both HDR and conventional televisions without additional color correction. If you're going to post in 4K HDR, you've got a choice of shooting in either HLG or S-Log3 with BT.2020 color.

Wireless streaming and remote control

Stream audio/video in real time. Transfer proxy video via FTP. Operate the camera via Wi-Fi* from a tablet or smartphone. The PXW-Z450 provides wireless capability

and a convenient ONLINE button. The camera comes equipped with the iFU-WLM3 Wi-Fi module and an RJ-45 Ethernet port.



CBM W802 wireless LAN adaptor attached to the PXW-Z450 (Adaptor sold separately.)



ONLINE button



Embedded RJ-45 Connector

NFC (Near Field Communication)

Skip cumbersome setup procedures on your smartphone or tablet. NFC enables easy connection for launching the CBM (Content Browser Mobile) application.



Robust inputs and outputs

The PXW-Z450 goes beyond the usual connections with the following additions:

- 4K output via QuadLink 3G-SDI for 3840 x 2160 59.94p/50p signals (with CBKZ-Z450QL license, sold separately)
- Multi-purpose analog/digital audio input
- Pool-feed SDI input to record HD from another camera

All inputs and outputs are separate. Because there's no need to switch between input and output, you can use all the terminals at the same time.

Sony's Quality of Service (QoS) streaming

You can enjoy high-quality HD streaming without the complexity and cost of bonded cellular or satellite newsgathering thanks to Sony's Quality of Service (QoS) technology and our PWS-110RX1 receiver. Using a 3G/4G/LTE carrier dongle and service, sold separately, you can stream content from the field back to the studio. Sony's receiver can output HD-SDI signals for on-air broadcasting and send files to networked storage.

To optimize your workflow from image acquisition to editing, the receiver has a graphical user interface. You can monitor the streaming image, display a thumbnail list of proxy clips and send the proxy clips to a networked FTP server.



Accepts Full HD OLED viewfinders

For critical focus, the PXW-Z450 accepts Sony's brilliant Full HD OLED viewfinders, the HDVF-EL30 and EL20. In addition to the main eyepiece, the EL30 has an LCD monitor for viewing over a longer distance.



HDVF-EL30



HDVF-EL20

