

## HXR-MC2500

1/4-inch Exmor R CMOS sensor HD / SD AVCHD camcorder



### Overview

#### Making a professional impression

The HXR-MC2500 provides a professional look and shooting style which is ideal for weddings, corporate communications or education facilities. While light and easily portable, its full Shoulder Mount design means your clients immediately know you mean business.

Workflow flexibility is enhanced by the ability to record directly onto a removable memory card or a 32GB internal flash memory in High Definition or Standard Definition. With this combination of the internal flash memory and memory card allows recording functions such as "Relay" and "Simultaneous" are available. When Sony's L-Series InfoLithium battery NP-F970 (optional) is used, the HXR-MC2500 is capable of continuous long recording of up to 14 hours- perfect for those occasions where you don't want to stop recording, such as weddings or business conferences.

The HXR-MC2500 is designed to be the ideal, entry-level match for almost any type of non-linear workflow. It's an exceptionally cost-effective production package for DVD or Blu-ray content, one that's flexible enough to express your creative ideas and meet your client's requirements.

- **Separate PAL and NTSC models available**

Depending on your region, separate models are available offering recording frame rates of 50p, 50i 25p Full HD and 50i SD (PAL model), or 60p, 60i, 30p, 25p Full HD and 60i SD (NTSC model).

## Features

- **Wide-angle G Lens**

The HXR-MC2500 comes equipped with a sophisticated G Lens that incorporates Sony's unique optical design technology and quality control, delivering exceptional performance on a par with some of the best lenses in the industry. The HXR-MC2500 itself is optimised to perfectly complement the G Lens with an advanced image sensor and Sony's famous image processing technology. This improves picture performance whether zooming in on the action, or getting a perspective on the big picture with a 26.8mm\* lens offering the widest angles in this class of camera, which enables wide-angle shooting even in tight spaces.

\*35mm or equivalent.

- **Highly-sensitive Exmor™ R CMOS sensor and built-in LED light**

The HXR-MC2500 is capable of shooting clearly even in low-light or indoor environments. Its highly-sensitive Exmor™ R CMOS sensor adopts a back-illuminated technology that enables the image sensor to utilize incidental light more efficiently, helping the videographer to achieve rich image quality even during low-light shooting situations. Moreover, the HXR-MC2500 is also equipped with a convenient built-in LED light for valuable extra illumination when needed.

- **Optical SteadyShot with Active Mode**

This feature ensures smooth movement while recording footage in many challenging shooting situations. In addition, Sony's innovative 3-Way Shake-Cancelling technology adds electronic roll stability for even smoother video capture. This latest version of image stabilisation technology realizes images that are up to 10x steadier for wide angle shooting than conventional Optical SteadyShot images. As the user zooms in, an intelligent digital image stabiliser starts to blend in and work together with its optical counterpart to effectively reduce camera shake. This technology also reduces shake in the rolling direction that commonly occurs when shooting while walking.

- **Wide angle view, high contrast OLED viewfinder and 3-inch wide LCD panel**

The HXR-MC2500 is equipped with an OLED Tru-Finder™ electronic viewfinder, offering a high resolution of approximately 1.44 million dots with high contrast levels. Sony's proprietary viewfinder technologies allow for better tonal reproduction and more detailed picture information when shooting. In addition, there is also the built-in 3-inch wide high resolution LCD panel (approximately 0.92 million dots) for crisp and bright views.

- **Wi-Fi/NFC functions for seamless connection to smartphones**

The HXR-MC2500 can connect to mobile devices such as smartphones or tablets via a Wi-Fi connection, enabling monitoring and remote control functions such as start/stop recording, zoom control, iris control and touch auto focus. Furthermore, it is also NFC-capable (Near Field Communications) to allow easy, one-touch wireless connections to compatible mobile devices.

- **Multi-Interface (MI) Shoe**

The MI Shoe expands your options to use accessories without cables, such as the UWP-D11 wireless microphone receiver and XLR audio input by XLR adapter.

- **Manual Lens Ring with Assignable Parameters**

Using the assignable lens ring, users can manually adjust key parameters like Focus, White Balance, Exposure, AE Shift, Iris priority and Shutter Speed priority. Users can control the G Lens iris to create an out-of-focus effect in the foreground or background. Shutter-speed can also be controlled to create special effects, such as the flowing motion of a waterfall or bird wings in flight etc.

- **Ideal for long event shooting with 32GB internal flash memory and low power consumption**

A 32GB internal flash memory enables longer duration recording of more than 150 minutes. In addition, by using a combination of the internal flash memory and memory card in the MS/SD slot, recording functions such as "Relay" and "Simultaneous" for backup can be available. When Sony's L-Series InfoLithium battery NP-F970 (optional) is used, the HXR-MC2500 is capable of continuous long recording of up to 14 hours. This is a critical feature for important occasions where operators may not have the luxury to stop the camera, such as during the filming of wedding ceremonies or other live events.

- **Ergonomic Handle & Controls**

The ergonomically designed handle contains a convenient record button and zoom control, essential for low position shooting. There are also cold shoes on the front and rear of the handle, which allow for the attachment of two different types of accessories.

- **AVCHD - Ideal for Memory Recording**

AVCHD is a highly efficient data compression format which greatly reduces memory requirements, maximizing the benefits of file-based recording with high image quality in a small file size. This is made possible by the exceptionally efficient MPEG4 AVC/H.264 codec at 50/60p@28mbps. Many consumer electronic devices already support AVCHD playback, and more are on the way. Numerous major NLE software programs feature AVCHD input and editing. The HXR-MC2500's Standard Definition recording format is in DV memory format.

- **Additional professional features**

A BNC Composite Terminal enables use of BNC cables for a professional secure connection, which prevents cable disconnect during critical shooting occasions such as live recording.

TC/UB Implementation: Time Code and User Bit are included for situations like multi-camera shoots

## Technical Specifications

### Important Note

- Depending on your region, the HXR-MC2500 is available in PAL or NTSC models to ensure the best possible performance.

### General

● Mass	Approx. 2.80kg (body) Approx. 6lb 2.8oz (body) Approx. 3.10kg (with lens hood, Lens Cap, Microphone, Eyecup, Shoe Cap, NP-F570 battery) Approx. 6lb 13.3oz (with lens hood, Lens Cap, Microphone, Eyecup, Shoe Cap, NP-F570 battery)
● Dimensions (W x H x D)	265.0 x 235.0 x 455.0 mm (body) 10 1/2 x 9 3/8 x 18 inches (body) 265.0 x 240.0 x 460.0 mm (With the accessories (lens hood, Lens Cap, Microphone, Eyecup), excluding the grip belt and including the projecting parts) 10 1/2 x 9 1/2 x 18 1/8 inches (With the accessories (lens hood, Lens Cap, Microphone, Eyecup), excluding the grip belt and including the projecting parts)
● Power Requirements	7.2V (battery pack); 8.4V (AC Adaptor)
● Power Consumption	Approx. 3.3 W (with EVF On, Video light Off) Approx. 3.3 W (with LCD monitor On, Video light Off)
● 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 (Continuous Recording Time)"	Approx. 285 min with NP-F570 battery (video light Off) Approx. 135 min with NP-F570 battery (video light On)
● Recording Format (Video) - HD	MPEG-4 AVC/H.264 AVCHD 2.0 format compatible
● Recording Format (Video) - SD	DV(AVI)
● Recording Format (Audio) - HD	Linear PCM 2ch, 16bit, 48kHz / Dolby Digital 2ch, 16bit, 48kHz
● Recording Format (Audio) - SD	Linear PCM 2ch, 16bit, 48kHz
● Recording Frame Rate (PAL) - HD	PS(28Mbps) 1920 x 1080/50P, 16:9 FX(24Mbps) 1920 x 1080/50i, 25p, 16:9, 1280 x 720/50p, 16:9 FH(17Mbps) 1920 x 1080/50i, 25p, 16:9, 1280 x 720/50p, 16:9 HQ(9Mbps) 1280 x 720/50p, 16:9
● Recording Frame Rate (PAL) - SD	DV(25Mbps) 720 x 576/50i, 16:9, 4:3
● Recording Frame Rate (NTSC) - HD	PS(28Mbps) 1920 x 1080/60P, 16:9 FX(24Mbps) 1920 x 1080/60i, 30p, 24p, 16:9, 1280 x 720/60p, 16:9 FH(17Mbps) 1920 x 1080/60i, 30p, 24p, 16:9, 1280 x 720/60p, 16:9 HQ(9Mbps) 1280 x 720/60p, 16:9
● Recording Frame Rate (NTSC) - SD	DV(25Mbps) 720 x 576/60i, 16:9, 4:3
● Recording/Playback Time	Approx.145min(Internal Media, PS, LPCM) Approx.170min(Internal Media, FX, LPCM) Approx.225min(Internal Media, FH, LPCM) Approx.380min(Internal Media, HQ, LPCM) Approx.140min(Internal Media, DV, LPCM)

### Lens

● Lens Mount	Fixed
● Zoom Ratio	12x (optical), servo/manual
● Focal Length	f = 2.9-34.8mm equivalent to f=26.8-321.6mm on 35 mm lens(16:9) equivalent to f=32.8-393.6mm on 35 mm lens(4:3)
● Iris	F1.8 - F3.4 auto/manual selectable
● Focus	AF/MF selectable, 10 mm to ∞ (Wide), 800 mm to ∞ (Tele)

● Image Stabilizer	ON(Standard/ACTIVE)/OFF selectable, shift lens
● Filter Diameter	M37 mm

Camera Section	
● Imaging Device (Type)	1/3.95 inch(4.6mm) back-illuminated Exmor R CMOS Sensor
● Imaging Device (Pixel Count)	Approx.6590K pixels
● Effective Picture Elements	Approx.6140K pixels(16:9)/Approx.4600K pixels(4:3)
● Minimum Illumination	1.4lux(MAN setting : SS 1/25sec , Iris F1.8 , Gain 33dB) [PAL] 1.6lux(MAN setting : SS 1/30sec , Iris F1.8 , Gain 33dB) [NTSC] 0.7lux(MAN setting : SS 1/12sec , Iris F1.8 , Gain 33dB) [PAL] 0.8lux(MAN setting : SS 1/15sec , Iris F1.8 , Gain 33dB) [NTSC]
● Shutter Speed	1/6 - 1/10,000 [PAL] 1/8 - 1/10,000 (1/6 - 1/10,000 when shooting with 24p) [NTSC]
● White Balance	Preset Indoor, Outdoor, Color temperature set range:2300-15000K Onepush A, B, Auto selectable
● Gain	0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33 dB, Auto Selectable

Input/Output	
● Composite Output	BNC (x1), PAL or NTSC depending on product model
● Audio Output	RCA pin
● USB	mini-AB USB2.0 Hi-speed/mass-storage/Host
● Headphone Output	Stereo mini jack $\phi$ 3.5mm (x1)
● Speaker Output	Monaural
● DC Input	DC jack
● Remote	Stereo mini mini jack $\phi$ 2.5mm (x1)
● HDMI Output	Type A (x1)
● Accessory Shoe	Multi Interface Shoe (x1), Cold Shoe (x2)

Monitoring	
● Viewfinder	1.0cm (0.39 inch) OLED Approx. 1.44M dots
● Built-in LCD Monitor	7.5cm (3.0 inch) Approx. 921K dots.

Built-in Microphone	
● Built-in Microphone	Omni-directional stereo electret condenser microphone.

Media	
● Internal Memory	32GB Flash Memory
● Type	Memory Stick Pro Duo™ and SD/SDHC/SDXC compatible

Built-in LED Light	
● Luminous intensity	1.0m / Approx.200 lx, 0.5m / Approx.800lx
● Lighting angle	Approx. 30°
● Color temperature	Approx. 5,500K

WiFi	

● 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	
● Supplied Accessories	<ul style="list-style-type: none"> <li>Lens hood (1)</li> <li>Lens cap (1)</li> <li>Shoe Cap (1)</li> <li>EVF eyecup (1)</li> <li>Microphone (1)</li> <li>Wind screen (1)</li> <li>Video Light Diffuser (1)</li> <li>USB adaptor cable (1)</li> <li>Rechargeable battery pack (NP-F570) (1)</li> <li>CD-ROM Operating instructions in PDF (1)</li> <li>Operating instructions (1)</li> <li>AC-L100C AC adaptor (1)</li> <li>AC Cable (1)</li> <li>Warranty (1)</li> </ul>