

PMW-50

XDCAM HD422 Portable Recorder

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Sony proudly introduces a new XDCAM portable recorder, the PMW-50 with a 3.5-inch LCD display and two SxS memory card slots. The PMW-50 takes on several important roles, particularly in field operation, including content viewing, content copying, SDI feed recording, and interfacing with NLE systems. As this recorder shares a common battery and AC adaptor with XDCAM handy camcorders, users can take it into the field at a moment's notice, without having to prepare a dedicated power source. The PMW-50 provides recording capability in MPEG HD422 as well as HD420 and SD, to suit all user requirements. Furthermore, recorded data on SxS memory cards can be easily copied to an external USB HDD, which saves the cost of additional data storage*.

* A firmware upgrade will enable connection an optional USB HDD (scheduled in Q2 2013).



Features

Beneficial Functions for Field Operation

The PMW-50 accepts HD or SD signals via SDI, and records onto SxS. And while signals are being input, the PMW-50 can output signals via an i.LINK and can be used as an ingest to NLE systems. Conversely, input to the PMW-50 via i.LINK can be converted to SDI, which is useful for feeding to other systems immediately after editing. For a quick onsite review of recorded clips, HD/SD-SDI, HDMI, or composite can be used to output images to an optional monitor. When there is no monitor, the large easy-to-see 3.5-inch color LCD display with a built-in speaker comes in handy. The PMW-50 works with an AC adaptor and BP-U Series battery which are commonly used with XDCAM handy camcorders. This makes the PMW-50 highly versatile and available for immediate use in field operation.



Front



Rear

Simple Copy and Backup

With the PMW-50, users find it easy to make copies and backups, using the two SxS slots or connecting an optional external USB HDD to one of the interfaces. This enables clips to be copied directly to USB HDD without using a PC, and helps users to make backup copies quickly and simply.

* A firmware upgrade will enable connection an optional USB HDD (scheduled in Q2 2013).



Multi-format Support In Both HD and SD

The PMW-50 has a highly flexible multi-format recording and playback capability as standard. Users can select recording and playback formats from HD (MPEG HD422 50 Mbps and MPEG HD420 35 Mbps/25 Mbps) and SD (MPEG IMX50* and DVCAM) in a variety of frame frequencies. In addition, with its down-conversion capability, the PMW-50 is able to output SD signals even while playing back HD content. Thus the PMW-50 can fit seamlessly into any environment, from SD to HD.

* A firmware upgrade will enable the MPEG IMX recording capability (scheduled in Q2 2013).

Compact Yet Powerful Playback/Recording Deck

The PMW-50 supports a variety of playback and recording functions to enhance user operation in every circumstance. For playback, users can select to play only the clips marked as "OK Clip". Also, the PMW-50 can playback the selected portions of clips by picking up between Shotmark1 and Shotmark2. For recording, the Continuous Recording function enables users to create a single file, even recording multiple clips for easier upload when editing. The PMW-50 also has a Loop Recording function, which automatically switches the recording media from one slot to the other when media in the active slot gets full, and continues recording until the stop button is pressed.

* A firmware upgrade will enable the Loop Recording function (scheduled in Q2 2013).

Specifications

PMW-50	
General	
Power Requirements	DC 12 V
Power Consumption	Approx. 9 W (while recording, LCD monitor On)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Mass	Approx. 1 kg (body)
Dimensions (W x H x D)*1	124 x 86 x 237 mm (without protrusions)
Recording/Playback Format (Video)	<UDF> - HD422 mode: CBR, 50 Mbps, MPEG-2 422P@HL - HD420 mode: VBR, 35 Mbps, MPEG-2 MP@HL - DVCAM mode: DVCAM - IMX 50 mode: CBR, 50 Mbps, MPEG-2 422P@ML Intra <FAT> - HQ mode: VBR, 35 Mbps, MPEG-2 MP@HL - SP mode: CBR, 25 Mbps, MPEG-2 MP@H1.4 - DVCAM mode: DVCAM
Recording/Playback Format (Audio)	<UDF> - HD422 mode: LPCM 24 bits, 48 kHz, 4 channels - IMX 50 mode: LPCM 24/16 bits, 48 kHz, 4 channels - Other mode: LPCM 16 bits, 48 kHz, 4 channels <FAT> - HD mode: LPCM 16 bits, 48 kHz, 4 channels - SD mode: LPCM 16 bits, 48 kHz, 2 channels
Recording/Playback Time (MPEG HD422)	<UDF> HD 422 mode: Approx. 120 min with SBP-64A/SBS-64G1A (64 GB) memory card Approx. 60 min with SBS-32G1A (32 GB) memory card
Recording/Playback Time (MPEG HD)	<UDF> HD 420 mode: Approx. 180 min with SBP-64A/SBS-64G1A (64 GB) memory card Approx. 90 min with SBS-32G1A (32 GB) memory card <FAT> HQ mode: Approx. 200 min with SBP-64A/SBS-64G1A (64 GB) memory card Approx. 100 min with SBS-32G1A (32 GB) memory card SP Mode: Approx. 280 min with SBP-64A/SBS-64G1A (64 GB) memory card Approx. 140 min with SBS-32G1A (32 GB) memory card
Recording/Playback Time (MPEG IMX)	<UDF> IMX 50 mode: Approx. 120 min with SBP-64A/SBS-64G1A (64 GB) memory card Approx. 60 min with SBS-32G1A (32 GB) memory card

PMW-50	
Recording/Playback Time (DVCAM)	<UDF> DVCAM mode: Approx. 220 min with SBP-64A/SBS-64G1A (64 GB) memory card Approx. 110 min with SBS-32G1A (32 GB) memory card <FAT> DVCAM mode: Approx. 260 min with SBP-64A/SBS-64G1A (64 GB) memory card Approx. 130 min with SBS-32G1A (32 GB) memory card
Battery Operating Time	Approx. 180 min with BP-U30 battery (while recording, LCD monitor On) Approx. 360 min with BP-U60 battery (while recording, LCD monitor On) Approx. 540 min with BP-U90 battery (while recording, LCD monitor On)
Media Drive	
Media Type	ExpressCard/34 slot (x2)
Input/Output	
HD-SDI Input	BNC (x1), HD/SD selectable SMPTE 292M/259M standards
SD-SDI Input	BNC (x1), HD/SD selectable SMPTE 292M/259M standards
Analog Composite Output	BNC (x1) NTSC, PAL or HD-Y
HD-SDI Output	BNC (x1), HD/SD selectable SMPTE 292M/259M standards
SD-SDI Output	BNC (x1), HD/SD selectable SMPTE 292M/259M standards
HDMI Output	Type A 19-pin (x1)
Analog Audio Output	Phono jack (CH-1, CH-2) -10dBu (Reference Level), 47kΩ
Headphone Output	Stereo mini jack (x1)
i.LINK	IEEE 1394, 4-pin (x1) HDV stream input/output, DVCAM stream output, S400
USB	USB device, Type-B (x1)
DC Output (12 V)	DC jack (12 V)
Option	4-pin, Type A
Other Equipment	
Built-in Display	3.5-inch type color LCD monitor: 852 (H) x 3 (RGB) x 480 (V), 16:9
Supplied Accessories	
USB cable (1) Infrared Remote Commander (1) BC-U1 battery charger (1) Lithium battery (CR2025 for the IR Remote Commander) (1): - Pre-installed to the IR Remote Commander Operating instructions (1) CD-ROM (Operating instructions) (1)	

*1 The values for dimensions are approximate.

Optional Accessories



SBP-64A
SxS Pro Memory Card



SBS-64G1A/32G1A
SxS-1 Memory Card



MEAD-MS01
Memory Stick Adaptor



MEAD-SD01/02
SD Card Adaptor



QDA-EX1
XQD Adaptor



BP-U90/U60/U30
Lithium-ion Battery Pack



BC-U1/U2
Battery Charger (1-slot/2-slot)

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