

PMW-RX50

Dual SxS PRO rugged, portable deck with Full HD XAVC recordings



Overview

Lightweight and compact dual SxS field recorder is ideal companion deck for XAVC camcorders

The PMW-RX50 mobile recorder plays and records Full HD XAVC Intra and XAVC Long GOP, as well as MPEG HD 422 50 Mbps, MPEG HD 420 35Mbps, MPEG IMX and DVCAM, making it the ideal companion deck for XAVC camcorders. As the successor to the PMW-50, the PMW-RX50 has a lot of attractive features, including dual SxS memory card slots offering dual simultaneous recordings, 3G HD/SD-SDI interface and 1080 59.94/50P workflow support and conversion output from 1080/59.94P (50P) to 1080/59.94i (50i). The recorder also has XLR audio input via a removable Audio Box. DC output is also provided for the CBK-WA100 mobile network 3G / 4G / LTE / wireless LAN adaptor.

Companion deck for XAVC camcorders

Records Full HD XAVC Intra and XAVC Long GOP at 1080/59.94, 50P.

Dual simultaneous recordings

Can record to two SxS memory cards simultaneously.

Audio Box adaptor

Provides XLR audio input.

Monitoring on tablet and file transfer via Wi-Fi

Supports CBK-WA100 mobile network wireless LAN adaptor.

Features

Compact SxS portable playback/recording unit

The PMW-RX50 is a lightweight, rugged handheld recorder/player offering full portability for news and field operations. The unit is designed to be tough and insensitive to vibrations and can be operated on BP-U battery.

3.5-inch LCD panel display

The PMW-RX50 acts as a stand-alone multi format SxS viewer or desktop SNG Card feeder.

Supports Full HD XAVC recordings, plus popular HD/SD formats

The PMW-RX50 plays and records Full HD XAVC Intra and XAVC Long GOP in exFAT mode. It records 1920 x 1080 59.94P, 50P, 59.94i, 50i, 29.97P, 23.98P and 25P, as well as 1280 x 720 59.94P and 50P. The PMW-RX50 also supports MPEG HD 422 50 Mbps, MPEG HD 420 35Mbps, MPEG IMX and DVCAM.

Dual simultaneous recordings direct to SxS cards via HD/SD-SDI inputs

The PMW-RX50 can record to two SxS memory cards simultaneously and enables second/parallel recording with embedded audio via HD/SD-SDI inputs.

SD, MS , XQD cards and SxS Media support

There is a flexibility of media availability, which allows user to choose the most appropriate media for their application.

Multiple inputs and outputs including XLR audio via Audio Box

The PMW-RX50 features an HD/SD-SDI interface along HDMI out, iLink interface, USB, stereo earphone and XLR audio input via a removable Audio Box.

5 assignable buttons

The PMW-RX50 has 5 assignable buttons for users to set any functions they want to use, including LCD, BRI and Display.

Monitoring on tablet and file transfer via Wi-Fi

DC output is provided for the CBK-WA100 mobile network 3G / 4G / LTE / wireless LAN adaptor.

Catalyst Browse software from Sony

Free clip management tool for both PC & Mac that supports all Sony professional formats.

Review footage on location, add metadata and review colour corrections.

Seamless upgrade to advanced Catalyst Prepare media preparation tool.

Specifications

Specifications

General Power Requirements

DC 12 V

Power Consumption

Approx. 13 W
(while recording, LCD monitor On)

Approx. 22.5 W
(while recording, LCD monitor On,
with CBK-WA100)

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	<p>Approx. 1 kg (without Audio Input Adapter)</p> <p>Approx. 1.2 kg (with Audio Input Adapter)</p>
Dimensions (W x H x D) *1	<p>124 x 86 x 237 mm (without protrusions & Audio Input Adapter)</p> <p>124 x 115 x 237 mm (with Audio Input Adapter & without protrusions)</p>
Recording/Playback Format (Video)	<p>[exFAT]</p> <ul style="list-style-type: none"> - XAVC-I mode: CBG, 223 Mbps max, MPEG-4 AVC/H.264 - XAVC-L50 mode: VBR, 50 Mbps max, MPEG-4 AVC/H.264 - XAVC-L35 mode: VBR, 35 Mbps max, MPEG-4 AVC/H.264 - XAVC-L25 mode: VBR, 25 Mbps max, MPEG-4 AVC/H.264 - 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
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@H14 - DVCAM mode: DVCAM
	[exFAT] - XAVC-I mode: LPCM 24 bits, 48 kHz, 4 channel - XAVC-L50 mode: LPCM 24 bits, 48 kHz, 4 channel - XAVC-L35 mode: LPCM 24 bits, 48 kHz, 4 channel - XAVC-L25 mode: LPCM 24 bits, 48 kHz, 4 channel - HD422 mode: LPCM 24 bits, 48 kHz, 4 channels - IMX 50 mode: LPCM 24/16 bits, 48

Recording/Playback
Format (Audio)

kHz, 4 channels
- Other mode: LPCM 16 bits, 48 kHz,
4 channels

[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

[XAVC-I]
Approx. 60 min with SBP-128B (128
GB) memory card
Approx. 30 min with SBP-64AB (64
GB)/ SBS-64G1A (64GB) memory
card

[XAVC-L50]
Approx. 240 min with SBP-128B
(128 GB) memory card
Approx. 120 min with SBP-64AB (64

Recording/Playback Time (XAVC)	GB)/ SBS-64G1A (64GB) memory card
	<p>[XAVC-L35]</p> <p>Approx. 340 min with SBP-128B (128 GB) memory card</p> <p>Approx. 170 min with SBP-64AB (64 GB)/ SBS-64G1A (64GB) memory card</p>
	<p>[XAVC-L25]</p> <p>Approx. 440 min with SBP-128B (128 GB) memory card</p> <p>Approx. 220 min with SBP-64AB (64 GB)/ SBS-64G1A (64GB) memory card</p>
Recording/Playback Time (MPEG HD422)	<p>[UDF]</p> <p>HD 422 mode:</p> <p>Approx. 120 min with SBP-64A/ SBS-64G1A (64 GB) memory card</p> <p>Approx. 60 min with SBP-32/ SBS-32G1A (32 GB) memory card</p>
	<p>[UDF]</p> <p>HD 420 mode:</p> <p>Approx. 180 min with SBP-64A/ SBS-64G1A (64 GB) memory card</p> <p>Approx. 90 min with SBP-32/ SBS-</p>

Recording/Playback Time (MPEG HD)	<p>32G1A (32 GB) memory card</p> <p>[FAT] HQ mode: Approx. 200 min with SBP-64A/ SBS-64G1A (64 GB) memory card Approx. 100 min with SBP-32/ SBS-32G1A (32 GB) memory card</p> <p>SP Mode: Approx. 280 min with SBP-64A/ SBS-64G1A (64 GB) memory card Approx. 140 min with SBP-32/ SBS-32G1A (32 GB) memory card</p>
Recording/Playback Time (MPEG IMX)	<p>[UDF] IMX 50 mode: Approx. 120 min with SBP-64A/ SBS-64G1A (64 GB) memory card Approx. 60 min with SBP-32/ SBS-32G1A (32 GB) memory card</p>
Recording/Playback Time (DVCAM)	<p>[UDF] DVCAM mode: Approx. 220 min with SBP-64A/ SBS-64G1A (64 GB) memory card Approx. 110 min with SBP-32/ SBS-32G1A (32 GB) memory card</p> <p>[FAT] DVCAM mode:</p>

	Approx. 260 min with SBP-64A/ SBS-64G1A (64 GB) memory card Approx. 130 min with SBP-32/ SBS-32G1A (32 GB) memory card
	Approx. 110 min with BP-U30 battery (while recording, LCD monitor On)
Battery Operating Time	Approx. 220 min with BP-U60 battery (while recording, LCD monitor On)
	Approx. 330 min with BP-U90 battery (while recording, LCD monitor On)
Media Drive Media Type	ExpressCard/34 slot (x2)

Input/Output

Input/Output 3G-SDI Input	BNC (x1), 3G/HD/SD selectable SMPTE 424M/292M/259M standards
HD-SDI Input	BNC (x1), 3G/HD/SD selectable SMPTE 424M/292M/259M standards

SD-SDI Input	BNC (x1), 3G/HD/SD selectable SMPTE 424M/292M/259M standards
Analog Audio Input	XLR-3pin (CH-1, CH-2) LINE: +4 dBu (Reference Level)
Analog Composite Output	BNC (x1) NTSC, PAL or HD-Y
3G-SDI Output	BNC (x2), 3G/HD/SD selectable SMPTE 424M/292M/259M standards
HD-SDI Output	BNC (x2), 3G/HD/SD selectable SMPTE 424M/292M/259M standards
SD-SDI Output	BNC (x2), 3G/HD/SD selectable SMPTE 424M/292M/259M standards
HDMI Output	Type A 19-pin (x1), output
Analog Audio Output	Phono jack (CH-1, CH-2) -10dBu (Reference Level), 47k Ω
Headphone Output	Stereo mini jack (x1) i.LINK IEEE 1394, 4-pin (x1) USB

HDV stream input/output, DVCAM stream output, S400	USB Type-A (x1) USB Type-miniB (x1) DC Input (12 V) DC jack (12 V) DC Output (12 V) UnReg(4-pin) for CBK-WA100
Other Equipment Built-in Display	3.5-inch type color LCD monitor: 960 (H) x 3 (RGB) x 540 (V), 16:9

Supplied Accessories

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 Leaflet: Before Using this Unit (1) Shoulder strap (1) Side spacer (1) CD-ROM: - Operating instructions in PDF (1)
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Notes

Note	*1 The values for dimensions are approximate.
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