

Sony proudly introduces the PMW-1000 studio recorder with two SxS® card slots providing a wide range of AV and IT interfaces including HD-SDI, SD-SDI, HDMI®, and composite outputs. The PMW-1000 provides outstanding MPEG HD422 picture quality as well as an uncompromising eight-channel (HD-SDI), 24-bit audio recording capability, all packed in a compact half-rack-size deck. In addition to MPEG HD422, XAVCTM Intra HD Record/Playback is supported¹, as well as MPEG IMX™ and DVCAM® formats in the SD domain. What's more, the RS-422 interface and Gigabit Ethernet enables the PMW-1000 to be used as a player deck for linear editing and a feeder deck for non-linear editing.





Features

Multi-format Capability in HD and SD

The PMW-1000 comes standard with a highly flexible, multi-format capability. Users can select recording and playback formats from HD (XAVC, MPEG HD422, and MPEG HD420) and SD (MPEG IMX50/40/30² and DVCAM) in a variety of frame frequencies. By supporting XAVC Intra 100-Mbps, XDCAM HD workflow can be enhanced with PMW-F5/F55 camera operation. In addition, with its up- and down-conversion function, the PMW-1000 is ideal for integration into an existing SD production system and also for future HD operation.

Similar Operability to Tape-based Devices

The PMW-1000 is equipped with a jog/shuttle dial and RS-422 control, providing VTR-like operation (Jog: -1 to +1 times normal speed; Variable: -2 to +2 times normal speed; Shuttle: -20 to +20 times normal speed). This gives the PMW-1000 a very familiar feel, and enables easy migration from tapebased operation.

Wilder Wilder

Variety of Interfaces

The PMW-1000 is a perfect addition to an existing NLE system, thanks to its versatile input and output interfaces:

- RS-422 9-pin remote control interface to be used as a feeder for linear editing
- Gigabit Ethernet for highspeed file transfer for network operation
- HDMI monitoring output for more flexible operation on any occasion



External USB Storage

The PMW-1000 is equipped with a USB interface for connection to an external USB HDD. This enables users to copy clips directly to a USB HDD without employing any other devices; helping to reduce storage costs, and means that users can make copies and backups simply and quickly.



Three-way Power Source Selection

The PMW-1000 can operate on AC, DC, and battery power, making it highly versatile and suitable for both in-house and field operations (for example, in a studio or OB vehicle).

















Specifications

PMW-1000
AC 100 V to 240 V, 50/60 Hz, DC 12 V
AC: 80 W, DC: 12V 5.7A
42°F to 104°F (5°C to 40°C)
-4°F to +140°F (-20°C to +60°C)
20% to 90% (relative humidity)
11 lb 2 oz (5.0 kg)
8 3/8 x 5 1/4 x 16 1/2 inches (excluding protrusions)
210 x 132 x 418 mm (excluding protrusions)
MPEG HD422 (CBR, 50 Mbps)
MPEG HD:
- HQ mode (VBR, maximum bit rate: 35 Mbps)
- SP mode (CBR, 25 Mbps) *2
- LP mode (VBR, maximum bit rate: 18 Mbps) *2
MPEG IMX (CBR, 50/40/30 Mbps) *2
DVCAM (CBR, 25 Mbps)
XAVC (CBR, 100 Mbps)
MPEG HD422: 8 ch/24 bits/48 kHz
MPEG HD: 4 ch/16 bits/48 kHz
MPEG IMX: 8 ch/16 bits/48 kHz or 4 ch/24 bits/48 kHz *2
DVCAM: 4 ch/16 bits/48 kHz
XAVC: 8 ch/24 bits/48 kHz
MPEG-4
A-law (8 ch/8 bits/8 kHz)
exFAT/MXF (100 Mbps CBR):
Approx. 120 min (128GB), Approx. 60 min (64GB),
Approx. 30 min (32GB), Approx. 15 min (16GB)
UDF/MXF (50 Mbps CBR):
Approx. 240 min (128GB), Approx. 120 min (64GB),
Approx. 60 min (32GB), Approx. 30 min (16GB)
UDF/MXF (35Mbps VBR):
Approx. 360 min (128GB), Approx. 180 min (64GB),
Approx. 90 min (32GB), Approx. 45 min (16GB)
FAT/MP4 (35Mbps VBR) *2:
Approx. 400 min (128GB), Approx. 200 min (64GB),
Approx. 100 min (32GB), Approx. 50 min (16GB),
FAT/MP4 (25Mbps CBR) *2:
Approx. 560 min (128GB), Approx. 280 min (64GB),
Approx. 140 min (32GB), Approx. 70 min (16GB),
UDF/MXF (50Mbps Intra) *2:
Approx. 240 min (128GB), Approx. 120 min (64GB),
Approx. 60 min (32GB), Approx. 30 min (16GB)
UDF/MXF (25Mbps CBR):
Approx. 440 min (128GB), Approx. 220 min (64GB),
Approx. 110 min (32GB), Approx. 55 min (16GB)
FAT (A) // (OEMb ODD) *2.
FAT/AVI (25Mbps CBR) *2:
Approx. 520 min (128GB), Approx. 260 min (64GB),
Approx. 520 min (126GB), Approx. 260 min (64GB), Approx. 130 min (32GB), Approx. 65 min (16GB)
Approx. 520 min (126GB), Approx. 260 min (64GB), Approx. 130 min (32GB), Approx. 65 min (16GB) -20 times to +20 times normal speed (max +/-50 by Remote)
Approx. 520 min (128GB), Approx. 260 min (64GB), Approx. 130 min (32GB), Approx. 65 min (16GB) -20 times to +20 times normal speed (max +/-50 by Remote) -2 times to +2 times normal speed
Approx. 520 min (128GB), Approx. 260 min (64GB), Approx. 130 min (32GB), Approx. 65 min (16GB) -20 times to +20 times normal speed (max +/-50 by Remote) -2 times to +2 times normal speed -1 time to +1 time normal speed (-2 to +2 by Remote)
Approx. 520 min (126GB), Approx. 260 min (64GB), Approx. 130 min (32GB), Approx. 65 min (16GB) -20 times to +20 times normal speed (max +/-50 by Remote) -2 times to +2 times normal speed (-2 to +2 by Remote) -1 time to +1 time normal speed (-2 to +2 by Remote) -35/-35 times normal speed (max +/-50 by Remote)
Approx. 520 min (128GB), Approx. 260 min (64GB), Approx. 130 min (328B), Approx. 65 min (16GB), -20 times to +20 times normal speed (max +/-50 by Remote) -2 times to +2 times normal speed -1 time to +1 time normal speed (22 to +2 by Remote) -35(+35 times normal speed (max +/-50 by Remote) -35(+35 times normal speed (max +/-50 by Remote) -35(-45 times normal speed (max +/-50 by Remote)
Approx. 520 min (126GB), Approx. 260 min (64GB), Approx. 130 min (32GB), Approx. 65 min (16GB) -20 times to +20 times normal speed (max +/-50 by Remote) -2 times to +2 times normal speed (-2 to +2 by Remote) -1 time to +1 time normal speed (-2 to +2 by Remote) -35/-35 times normal speed (max +/-50 by Remote)

	PMW-1000
HD-SDI Input	BNC (x1) (HD/SD switchable)
	HD-SDI: SMPTE 292M (w/embedded audio)
	SD-SDI: SMPTE 259M (w/embedded audio)
Analog Audio Input	XLR-type 3-pin (female) (x2) (channel selectable),
	+4/0/-3/-6 dBu (selectable), 10 kΩ, balanced
Digital Audio Input (AES/EBU)	
Timecode Input	BNC (x1), SMPTE timecode, 0.5 Vp-p to 18 Vp-p/3.3 kΩ/unbalanced
Analog Composite Output	BNC (x2),
	1: 1.0 Vp-p/75 Ω/negative, SMPTE 170M 2: 1.0 Vp-p/75 Ω/negative, SMPTE 170M, character On/Off
HD-SDI Output	BNC (x2),
пр-эрі Опірпі	1: SMPTE 292M (w/embedded audio)
	2: SMPTE 292M (w/embedded audio), character on/off
SD-SDI Output	BNC (x2).
	1: SMPTE 259M (w/embedded audio)
	2: SMPTE 259M (w/embedded audio), character on/off
HDMI Monitor	TYPE A 19-pin (x1)
	Video : 1080i, 720P, 480i, 480P, 576i, 576P
	Audio : 2 ch/16 bits/48 kHz
Analog Audio Output	XLR-type 3-pin (male) (x2) (channel selectable),
	+4/0/-3/-6 dBu (selectable), 600 Ω, Lo-z, balanced
Analog Audio Monitor	XLR-type 3-pin (male) (x2), +4 dBu, 600 Ω, Lo-Z, balanced
Digital Audio Output (AES/EBU)	
Headphone Output	JM-60 Stereo phone jack (x1), -13 dBu, 8 Ω, unbalanced
Timecode Output	BNC (x1), SMPTE timecode, 1.0 Vp-p/75 Ω/unbalanced
Video Control	
Ethernet	RJ-45 (x1)
	1000BASÉ-T: IEEE 802.3ab
	100BASE-TX: IEEE 802.3u
Remote Input (9-pin)	10BASE-T: IEEE 802.3 D-sub 9-pin (female) (x1), RS-422A
USB	Front: (x1) USB 3.0
Maintenance	Rear: (x2) for Maintenance, USB Keyboard, USB Mouse
DC Input (12 V)	XLR-type 4-pin (male) (x1)
DC Output (12 V)	4-pin (female) (x1), DC 12 V, 7.5 W
AC Input	AC Input (x1), 100 V to 240 V, 50/60Hz
Sampling Frequency	Y: 74.25 MHz. Pb/Pr: 37.125MHz
Quantization	HD422, MPEG HD, IMX, DVCAM: 8 bits/sample
	XAVC: 10 bits/sample
Error Correction	Reed Solomon Code
Video Level	-∞ to +3 dB
Chroma Level	-∞ to +3 dB
Set Up/Black Level	-30 IRE to +30 IRE/-210 mV to +210 mV
Chroma Phase	-30° to +30° ke/-210 HW 10 +210 HW
System Sync Phase	-15 us to +15 us
System SC Phase	0 ns to 400 ns
Sampling Frequency	48 kHz
Quantization	24 bits
Frequency Response	20 Hz to 20 kHz +0.5/-1.0 dB (0 dB at 1 kHz)
Dynamic Range	More than 90 dB
Distortion	Less than 0.05% (at 1 kHz)
Headroom	20/18/16/12/9 dB (selectable)
Built-in Display	4,3-inch ³ type color LCD monitor
Built-in Speaker	Monaural (x1)
Supplied Accessories	Operation guide (1)
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¹ The values for dimensions are approximate.

Optional Accessories



SBP-64A/32 SxS Pro™ Memory Card



BP-GL95A/GL65A Lithium-ion Battery Pack



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



BP-L80S/L60S/L551 Lithium-ion Battery Pack



MEAD-MS01 Memory Stick® Adaptor



BKP-L551 Lithium-ion Battery Adaptor



BC-L70



SD Card Adaptor



Lithium-ion Battery Charger



QDA-EX1 XQD Adaptor



RM-280 Editing Controller (Ver 2.03 or later)

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² Playback only.

³ Viewable area measured diagonally.