



PMWEX1R
XDCAM EX Full HD
Memory Camcorder

\$7,790.00

U.S.List Price

Overview

The XDCAM EX PMW-EX1R is the direct successor to Sony’s first entry into memory recording – the PMW-EX1. The PMW-EX1R features a range of ergonomic enhancements of the EX1, including an improved hand grip, a one-push S & Q switch and a one-push Auto Iris button. Other enhancements include SD recording in DVCAM, a Cache Recording Function, an Image Inversion Function and an IR remote control receptor on the rear of the camcorder’s handle allowing remote control from both the front and the rear of the camcorder. The PMW-EX1R utilizes three 1/2-inch type Exmor™ CMOS sensors, each with an effective pixel count of 1920 (H) x 1080 (V). This technology delivers superior picture performance with full-HD resolution and allows the camcorder to provide an excellent sensitivity of F10 and a remarkable signal-to-noise ratio of 54dB. The PMW-EX1R produces truly exceptional images in 1080p, 720p and 1080i HD. The PMW-EX1R is equipped with a high-quality, high-definition Fujinon 14x zoom lens specifically designed to offer optimum picture performance and unprecedented functionality. The full Sony XDCAM EX line-up provides stunning HD picture quality and efficient nonlinear operation, expanding the creative possibilities in every type of HD video production.

Highlights

- * Three 1/2-inch-type Exmor Full-HD CMOS Sensors
- * Supplied Wide-angle Fujinon 14x Zoom Lens
- * Unique Focus Ring Mechanism - Professional Manual Focus and Auto Focus
- * MF (Manual Focus) Assist Function
- * One-push Auto Iris
- * Optical Image Stabilizer
- * Expanded Focus
- * Selectable Peaking
- * 23.98p Native Recording
- * Slow & Quick Motion Function
- * One-push S&Q Switch
- * Slow Shutter Function
- * Interval Recording Function
- * Frame Recording Function
- * DVCAM Recording
- * Picture Profile™ Feature
- * Shot Transition™ Function
- * ATW (Auto Tracing White Balance) & Hold
- * Cache Recording Function
- * Image Inversion Function
- * IR Remote Control on Rear
- * Additional Aspect Markers for Cinema Operation
- * HDMI Output
- * HD-SDI and Other Versatile Interfaces
- * 3.5-inch (viewable area measured diagonally) Color LCD
- * Four Assignable Buttons
- * 0.45-inch (viewable area measured diagonally) Color LCD Viewfinder
- * On-handle Zoom Switch and Record Start/Stop Button
- * Rotary Grip
- * Built-in Stereo Microphone and Two-channel Audio Input

Specifications

Camera Section Specifications	Detail
Built-in Optical Filters	OFF: Clear, 1: 1/8ND, 2: 1/64ND
Effective Picture Elements	1920 (H) x 1080 (V)
Gain	-3, 0, 3, 6, 9, 12, 18 dB, AGC
Horizontal Resolution	1,000 TV lines or more (1920 x 1080i mode)
Imaging Device	3-chip 1/2-inch type Exmor Full HD CMOS

Minimum Illumination	0.14 lx (typical) (1920 x 1080/59.94i mode, F1.9, +18 dB gain, with 64-frame accumulation)
Optical System	F1.6 prism system
S/N Ratio	54 dB (Y) (typical)
Sensitivity (2000 lx, 89.9% reflectance)	F10 (typical) (1920 x 1080/59.94i mode)
Shutter Speed (Time)	1/32 sec to 1/2,000 sec
Slow & Quick Motion Function	720p: Selectable from 1 fps to 60 fps as recording frame rate 1080p: Selectable from 1 fps to 30 fps as recording frame rate
Slow Shutter	2-, 3-, 4-, 5-, 6-, 7-, 8-, 16-, 32-, and 64-frame accumulation
White Balance	Preset (3,200 K), Memory A, Memory B/ATW
General Specifications	Detail
Battery Operating Time	Approx. 240 min with BP-U60 battery Approx. 120 min with BP-U30 battery
Built-in Microphone	Omni-directional stereo electret condenser microphone
Dimensions (W x H x D)	179 x 199 x 308 mm (7 1/8 x 7 7/8 x 12 1/4 inches) without projection
Mass	2.4 kg (5 lb 4 oz) (body) 2.8 kg (6 lb 2 oz) (with lens hood, large eye cup, BP-U30 battery, one SxS PRO memory card)"
Operating Temperature	0 °C to 40 °C (32°F to 104 °F)
Power Consumption	Approx. 12.5 W (while recording, EVF On, LCD monitor Off)
Power Requirements	DC 12 V
Recording Format	Video: MPEG-2 Long GOP HD HQ mode: VBR, maximum bit rate: 35 Mb/s, MPEG-2 MP@HL HD SP mode: CBR, 25 Mb/s, MPEG-2 MP@H14 SD mode: DVCAM Audio: Linear PCM (2ch, 16-bit, 48-kHz)
Recording Frame Rate	NTSC area: HD HQ mode: 1920 x 1080/59.94i, 29.97p, 23.98p, 1440 x 1080/59.94i, 29.97p, 23.98p, 1280 x 720/59.94p, 29.97p, 23.98p HD SP mode: 1440 x 1080/59.94i SD mode: 720 x 480/59.94i, 29.97p PAL area: HD HQ mode: 1920 x 1080/50i, 25p, 1440 x 1080/50i, 25p, 1280 x 720/50p, 25p HD SP mode: 1440 x 1080/50i
Recording/Playback Time	HQ Mode: Approx. 100 min with SBP-32 (32 GB) memory card** Approx. 50 min with SBP-16 (16 GB) memory card Approx. 25 min with SBP-8 (8 GB) memory card SP Mode: Approx. 140 min with SBP-32 (32 GB) memory card** Approx. 70 min with SBP-16 (16 GB) memory card Approx. 35 min with SBP-8 (8 GB) memory card
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Inputs/Outputs Specifications	Detail
Audio Input	XLR-type 3-pin (female) (x2), line/mic/mic +48 V selectable
Audio Output	Phono jack (CH-1,CH-2) via A/V multi connector
Component Output	Mini D (x1) via A/V multi connector
Composite Output	Phono jack (x1) via A/V multi connector, NTSC or PAL
DC Input	DC jack

Genlock Input	N/A
HDMI Output	A Type (x1)
Headphone Output	Stereo mini-jack (x1)
Lens Remote	12-pin
Remote	N/A
S-Video Output	N/A
SDI Output	BNC (x1), HD-SDI/SD-SDI selectable
Speaker Output	Monaural
Timecode Input	N/A
Timecode Output	N/A
USB	USB device, Mini-B (x1)
i.LINK	IEEE 1394, 4-pin (x1), HDV (HDV 1080i) / DVCAM stream input/output , S400

Lens Specifications	Detail
Filter Diameter	M77 mm, pitch 0.75 mm (on lens)
Focal Length	f = 5.8 mm to 81.2 mm (equivalent to 31.4 mm to 439 mm on 35 mm lens)
Focus	AF/MF/Full MF selectable, 800 mm to (MACRO OFF), 50 mm to (MACRO ON, Wide), 735 mm to (MACRO ON, Tele)
Image Stabilizer	ON/OFF selectable, shift lens
Iris	F1.9 to F16 and Close, auto/manual selectable
Lens Mount	N/A
Zoom Ratio	14x (optical), servo/manual

Media Specifications	Detail
Type	ExpressCard/34 slot (x2)

Monitoring Specifications	Detail
Built-in LCD Monitor	3.5-inch* type color LCD monitor: approx. 921,000 effective pixels, 640 (H) x 3 (RGB) x 480 (V), 16:9, hybrid type
Viewfinder	0.452-inch* type color LCD: 85 (H) x 480 (V), 16:9

Accessories

Supplied Accessories		
Model:	Description:	U.S.List Price
	Lens hood (1), Large eye cup (1), IR remote commander unit (1),	Pricing available upon request
	USB cable (1), A/V connecting cable (1), Component video cable (1),	Pricing available upon request
	Shoulder strap (1), Operation Manual (1),	Pricing available upon request
	XDCAM EX Clip Browsing software (1), SxS device driver software (1),	Pricing available upon request
	BP-U30 battery (1), BC-U1 charger (1)	Pricing available upon request

Optional Accessories		
Model:	Description:	U.S.List Price
ECM680S	Stereo Shotgun Microphone	\$1,010.00
VCTSP2BP	Camcorder Support	\$520.00
MEADMS01	MEADMS01 Media Adapter	\$120.00
VCLEX0877	Sony Wide Conversion Lens	\$515.00
BPU30	Rechargeable Lithium-ion Battery Pack for PMW-EX1/EX3 and PHU-60K	\$133.90
UWPV6/4244	Lav Mic, Bodypack TX, Plug-on TX and Portable RX Wireless System	\$987.00
SBACUS10	SxS Memory Card USB Reader/Writer	\$278.10
BPU60	Rechargeable Lithium-ion Battery Pack for PMW-EX1/EX3 and PHU-60K	\$267.80
BCU1	Battery Charger/AC Adaptor for BP-U30/U60 Lithium-ion Battery Packs.	\$133.90

HVRMRC1K	Memory Recording Unit	\$940.00
BCU2	Battery Charging Unit	\$350.00
MEADSD01	SDHC CARD ADAPTER	\$110.00
UWPV6/3032	Lav Mic, Bodypack TX, Plug-on TX and Portable RX Wireless System	\$987.00
UWPV2/3032	Handheld Mic TX and Portable RX Wireless System	\$727.00
UWPV1/3032	Lav Mic, Bodypack TX and Portable RX Wireless System	\$727.00

Resources

Product Manual

Description:	Release Date	Type/Size
PMWEX1R Operating Instructions		pdf / 5,829K

Family Brochure

Description:	Release Date	Type/Size
XDCAM EX Family		pdf / 6,192K

Product Brochure

Description:	Release Date	Type/Size
VCT-SP2BP / VCT-SP1BP Camcorder Support		pdf / 1,161K

Media

Model:	Description:	U.S.List Price
SBP32	SxS Pro 32GB Memory Card 140 min	Pricing available upon request
SBS32G1	SXS 32GB MEMORY CARD	Pricing available upon request
SBP16	SxS Pro 16GB Memory Card 70 min	Pricing available upon request

Support & Training

Service

Model:	Description:	U.S.List Price
SPSCAM10RSEW3	3 Year Extended Warranty for Camcorders with list to \$10,000	\$169.99
SPSCAM10RSEW5	5 Year Extended Warranty for Camcorders with list to \$10,000	\$339.99