

SR-R1

SRMASTER Portable Recorder for
Cameras with HD-SDI Interface



Overview

The SR-R1 is a highly portable recording system compatible with any camera, camcorder, and other equipment with an HD-SDI interface, including the PMW-F3, F35 and SRW-9000PL. Dual-link HD-SDI/3G-SDI is supported to provide stunning recording capabilities including 1080 50P/60P and RGB 4:4:4 recording. This system also offers a dual-stream recording capability, which is useful for 3D stereoscopic image capturing. SR-Lite (220 Mbps) and SR-SQ (440 Mbps) are supported as standard

Features

HDCAM SR Recording and Replay

The SR-R1 records the same picture quality that has made HDCAM SR the worldwide reference for ultimate quality. SR-Lite (220 Mbps) , SR-SQ (440 Mbps) and SR-HQ (8880Mbps) are supported.

3D and 2D 4:2:2 and RGB 4:4:4 Recording

The SR-R1 records 4:2:2/RGB 4:4:4 2D and 3D with 3D stereoscopic (dual-stream) mode.

Multiple Frame Rate Recordings

The SR-R1 is able to record multiple frame rates working with the PMW-F3 Camera – 17 to 60 FPS in 4:2:2, 17 to 30 FPS in RGB.

Frame Accurate Recording with SxS Card and

SRMemory simultaneously

Operating with the PMW-F3 Camera, the SR-R1 is able to make frame accurate recordings on both the SxS Card and SRMemory Card.

16 Channels 24-bit Uncompressed Audio

RS-422 Remote Control

Timecode In/Out

Records RGB S-Log from F35, SRW-9000PL and PMW-F3

Dockable style operation with Sony camcorders (via optional adaptor)

DC operation and control panel

Specifications

General

Recording Format	MPEG-4 SStP format
Power Requirements	11 to 17 V DC
Power Consumption	Approx. 30 W (when recording at 422 23.98PsF SR-Lite mode)
Operating Temperature	0°C to 40°C 32°F to 104°F
Storage Temperature	-20°C to +60°C -4°F to +140°F
Humidity	10% to 95% (no condensation)

Mass	1.9 kg (excluding control panel and SRMemory card) 4 lb 3 oz (excluding control panel and SRMemory card)
Dimensions (W x H x D) *1	141 x 97 x 190 mm (excluding protrusion) 5 5/8 x 3 7/8 x 7 1/2 inches (excluding protrusion)

Input/Output

HD-SDI Input	A: BNC (x1) B: BNC (x1) HD-SDI (1.485 Gbps) (SMPTE 292M/372M, BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPTE 424M)
Audio Input	XLR-type 3-pin (female) (x2) (CH1/CH2), LINE/MIC/MIC +48 dB selectable
Timecode Input	BNC (x1) 0.5 to 18 Vp-p/10 kΩ SMPTE linear time code compliant
Timecode Output	BNC (x1) 1.0 Vp-p/1 kΩ SMPTE linear time code compliant

AUX Input	BNC (x1) HD-SDI embedded audio (1.485 Gbps) (SMPTE 292M standard)
HD-SDI Output	A: BNC (x1) B: BNC (x1) HD-SDI (1.485 Gbps) (SMPTE 292M/372M, BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPTE 424M)
Earphone Output	Stereo mini-jack (x1)
Remote	LEMO 14-pin (female) (x1)
Control Panel	Control panel connector (x1)

Video (422 Format)

Sampling Frequency	Y: 74.25 MHz, Pb/Pr: 37.125 MHz
Quantization	10 bits
Compression	MPEG-4 SStP

Video (444 Format)

Sampling Frequency	RGB: 74.25 MHz
Quantization	10 bits, 12 bits
Compression	MPEG-4 SStP

Digital Audio Signal Format

Sampling Frequency	48 kHz
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Quantization	24 bits
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Headroom	20 dB
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Analog Audio Input

A/D Quantization	24 bits
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Reference Input Level	Line: +4 dBu, Mic: -34 dBV
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Frequency Response	20 Hz to 20 kHz +0.5/-1.0 dB (at reference level)
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Dynamic Range	More than 100 dB (1 kHz)
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Distortion	Less than 0.05% (1 kHz, at reference level)
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Crosstalk	Less than -80 dB (1 kHz, between any two channels)
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Supplied Accessories

	Control panel (1)
	BKP spacer (1)
	CP bracket (1)
Supplied Accessories	Control panel cable (0.6 m) (1)

REMOTE cable (for future expansion) (1)
Operation manual (1)

Notes

Note *1 The values for dimensions are approximate.

Gallery



