SONY

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

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Digital Audio Signal Format

Sampling Frequency	48 kHz
Quantization	24 bits
Headroom	20 dB

Analog Audio Input

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

Supplied Accessories

Supplied Accessories	Control panel (1) BKP spacer (1) CP bracket (1) 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