

## 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
--------------------	--------

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

	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



