

SONY SRW-1/SRPC-1 RECORDER

The SRW-1 HD Digital Video Cassette Recorder, combined with the SRPC-1 HD Video Processor, forms the first Sony full-bandwidth HD 4:4:4 (RGB) portable VTR system. The SRW-1 offers virtually lossless 1080-line high definition recordings at multiple frame rates on the very latest HDCAM-SR tape media and greatly enhances shooting operations in field production applications due to its superb picture quality and portable size. The SRW-1 has unprecedented HD image quality, powerful interfacing capabilities and excellent operability. For aerial filming requirements, this HD portable VTR system combined with the Cineflex V14 and 1500 camera option is ideal for movie making, commercial production and high end television productions.

In conjunction with the Cineflex V14 recordable frame rates are:

1080 4:4:4 60i, 50i, 29.9PsF, 25PsF, 24PsF

1080 59.9P, 50P, 50i, 60i, 29.9PsF, 25PsF, 24PsF

Technical Specifications

POWER REQUIREMENTS: DC +12V (DC+11 to +17V)

OPERATING TEMPERATURE: 0°C to 40°C (°F to 104°)

STORAGE TEMPERATURE: -20°C to 60°C (-4°F to 140°F)

OPERATING HUMIDITY: 25% to 80%

MASS: 8.5KG (18lb 12oz)

DIMENSIONS: 279mm x 399mm x 139mm

RECORDING FORMAT: HDCAM-SR

RECORDING/PLAYBACK TIME

NORMAL SPEED RECORDING: 50 min with BCT-40SR cassette (24P mode)

DOUBLE SPEED RECORDING: 25 mins with BCT-40SR cassette (24P mode)

INPUT/OUTPUT SIGNALS

HD SERIAL V/A INPUT: BNC x 2, Serial Digital (1.485 Gbps), SMPTE-292M/ SMPTE-372M/BTA-S004/ITU-R. BT709

HD REF VIDEO INPUT: BNC x 1, Black Burst, 0.286 Vp-p, 75Ω, sync negative

SD REF VIDEO INPUT: BNC x 1, Black Burst, 0.286 Vp-p, 75Ω, sync negative

DIGITAL AUDIO INPUT: BNC x 2 (AES/EBU)

ANALOGUE AUDIO INPUT: XLR-3pin x 4 (female)

TIME CODE INPUT: BNC x 1, 0.5 to 18 Vp-p 10Ω

HD SERIAL V/A OUTPUT: BNC x 2, serial digital (1.485 Gbps), SMPTE-292M/ SMPTE-372M/BTA-S004/ITU-R.BT709



HD SERIAL MONITOR OUTPUT: BNC x 1 (with character out), serial digital (1.485 Gbps), SMPTE-292M/BTA-S004/ITU-R.BT709SD SERIAL V/A

MONITOR OUTPUT: BNC x 1 (with character out), serial digital (1.485 Gbps), SMPTE-259M

DIGITAL AUDIO OUTPUT: D-sub multi connector

ANALOGUE AUDIO MONITOR OUTPUT: XLR-3pin x 2 (male)

TIME-CODE OUTPUT: BNC x 1, 1.0 Vp-p (75KΩ) , 2.2 Vp-p (10KΩ)

REMOTE INPUT: D-sub 9-pin (female), Sony 9-pin remote interface

VIDEO SAMPLING FREQUENCY: Y: 74.25MHz, Cb/Cr: 37.125 MHz, G: 74.25 MHz, B: 74.25 MHz, R: 74.25MHz

QUANTIZATION: 10 bits/sample

COMPRESSION: MPEG-4 studio profile

CHANNEL CODING: S-NRZ

ERROR CORRECTION: Reed-Solomon code

DIGITAL AUDIO SAMPLING FREQUENCY: 48kHz (synchronised with Video)

QUANTIZATION: 24 bits/sample

WOW & FLUTTER: Below measurable level

ANALOGUE AUDIO SAMPLING FREQUENCY: 24 bits/sample

FREQUENCY RESPONSE: 20Hz to 20KHz, +0.5 dB/-1.0dB (reference level)

DYNAMIC RANGE: More than 100dB (1kHz)

DISTORTION: Less than 0.05% (at 1kHz, reference level)