SONY®
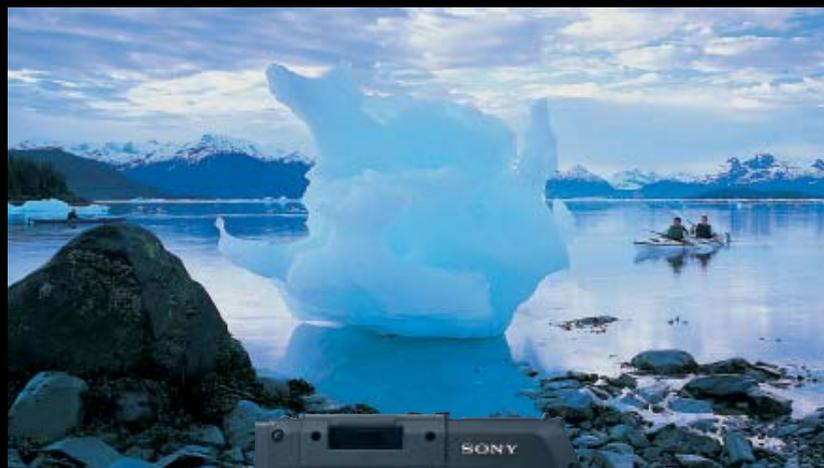

HD Digital Videocasette Recorder

SRW-1

HD Digital VTR Adaptor

SRPC-1

Preliminary

HD 4:4:4 recording with field-use portability

As one of the newest members in the CineAlta™ lineup, you can expect only the highest quality CineAlta images from the new Sony SRW-1 HD Digital Video Cassette Recorder and the SRPC-1 HD Digital VTR Adapter. Together, they form the first Sony full-bandwidth 4:4:4 (RGB) portable VTR system. This new system further enhances the flexibility of the CineAlta products in field production applications.*

Designed to comply with ISO/IEC 14496-2:2001 and FDAM 1:2001 standards, the SRW-1 offers virtually lossless 1080-line high-definition recordings at multiple frame rates on the very latest HDCAM-SR tape media.

The SRW-1/SRPC-1 connects to its companion HDC-F950 camera, via a single fiber-optic cable, to create a convenient, portable, full-bandwidth 4:4:4 (RGB) image capturing system. The SRW-1 can also be configured with the Sony HDW-F900 HDCAM camcorder to record HD 4:2:2 component images.

The SRPC-1 HD Digital VTR Adapter, specially designed for the SRW-1, provides a variety of video-processing functions and houses an array of input and output connectors, including HD/SD signals, 12 channels of digital audio, and 4 channels of analog audio. Its processing functions include the easy handling of 2-3 pull-down insertions, down conversion, and RGB – Y/Pb/Pr color-space conversion.

*The SRW-1 must be used with the SRPC-1

Features and Benefits

- **High-quality HD field recording**
  Input and output signals
  - 1920 x 1080 4:2:2 (Y/Pb/Pr)   10-bit
  - 1920 x 1080 4:4:4 (R/G/B)   10-bit
  MPEG-4 Studio Profile (SP) compression
  - 4:2:2 or 4:4:4 (R/G/B)

- **Multi-frame-rate 1080 HD recording and playback**
  Progressive: 23.976/24/25/29.97/30/50/59.94/60
  Interlace: 50/59.94/60
  Variable frame-rate recording

- **RGB recording for cinema applications**
  RGB signals and control available via a single fiber-optic cable

- **High-definition picture quality using the HDCAM-SR format**
  Capable of storing more than six times more data than the HDCAM format

- **Stable and durable videotape**

- **Backspace editing**

- **Long recording time of 50 min @ 24P and 40 min @ 60i on S-sized tape**

- **For longer recording times, VTRs can be cascaded using a fiber-optic cable**

- **RS-422 control for dubbing, and server connection**

- **Optical link to cameras (optional)**

- **Detachable control panel**

- **Compact, lightweight design**

- **Durable construction**

- **Built-in Tele-File read/write capability**

- **Built-in HD-to-SD down conversion**

- **Built-in 2-3 pull-down capability**

- **Flexible versatile outputs**

Tape recording		VTR Playback Frame Rate	Output Signal	
			HD-SDI OUT	SDI OUT
1920x1080 P/i	4:4:4	23.98 P	1080 / 4:4:4 23.98 P or 1080/4:2:2 23.98 P or 59.94 i	525/59.94 i
		25 P (50 i)	1080 / 4:4:4 or 4:2:2 25 P (50 i)	625/50 i
		29.97 P (59.94 i)	1080 / 4:4:4 or 4:2:2 29.97 P (59.94 i)	525/59.94 i
	4:4:2	23.98 P	1080/4:2:2 23.98 P or 59.94 i or 1080/4:4:4 23.98 P	525/59.94 i
		25 P (50 i)	1080/4:2:2 or 4:4:4 25 P (50 i)	625/50 i
		29.97 P (59.94 i)	1080 / 4:2:2 or 4:4:4 29.97 P (59.94 i)	525/59.94 i

Specifications

GENERAL	
Power requirements	DC 11 to 17V
Operating temperature	0 °C to +40 °C
Storage temperature	-20 °C to +60 °C
Operating humidity	25 % to 80 % (relative humidity)
Mass (approx.)	7.7 kg
Dimensions (W x H x D)	272 x 400 x 147 mm
Digital recording/playback time	Max. 50 min with BCT-40SR cassette (24P mode)
Fast-forward/rewind time	Less than 5 min. with BCT-40SR tape
Load/unload time	Less than 3 sec.

IN/OUTPUT SIGNALS	
HD serial V/A input	BNC (x2), serial digital (1.485 Gb/s), SMPTE 292M, 372M /BTA S-004/ITU-R.BT 709
HD reference video input	BNC (x1), tri-level sync, 0.6 Vp-p, 75 Ω, sync negative or Black Burst, 0.286 Vp-p, 75 Ω, sync negative
SD reference video input	BNC (x1, with a loop-through), Black Burst, 0.286 Vp-p, 75 Ω, sync negative
Digital-audio input (CH7/8, 11/12)	BNC (x2, AES/EBU)
Analog-audio input (CH1, 2, 5, 6)	XLR-3-pin type, (female x4), +4 dBm, 600 Ω, low impedance, balanced
Time-code input	BNC (x1), 0.5 to 18 Vp-p, 10 kΩ
HD serial V/A output	BNC (x2), serial digital (1.485 Gb/s), SMPTE 292 M, 372 M/BTA S004/ITU-R.BT 709
HD monitor output	BNC (x1, with character out), serial digital (1.485 Gb/s), SMPTE 292 M/BTA S004/ITU-R.BT 709
SD monitor output	BNC (x1, with character out), D1 serial digital (270 Mb/s), SMPTE 259 M
Digital-audio output (CH1-12)	DSUB multi connector
Analog-audio monitor output	XLR-3-pin type, (male x2), +4 dBm, (with a 600 Ω load), low impedance, balanced
Time-code output	BNC (x1), 1.0 Vp-p (75 Ω), 2.2 Vp-p(10 kΩ)
Headphones	Mini jack
Remote IN	RS-422
Camera remote IN	

Distributed by