

**SONY**<sup>®</sup>

NTSC/PAL

Digital Videocassette Recorder

**DVCAM**<sup>™</sup>

DSR-50

DSR-50P



F o r

P r o f e s s i o n a l

R e s u l t s

# The **DSR-50** - the Compact, Lightweight and Portable "Go Anywhere" VTR

The DSR-50\* is an all-new portable DVCAM™ Digital Videocassette Recorder built for a wide range of applications, including Electronic Field Production (EFP), event/wedding recording, evidence gathering and corporate communications. With an innovative and compact design that includes a 2.5-inch LCD color monitor, the DSR-50 can be used in a variety of roles: as a back-up recorder for acquisition, as a simple playback viewer, even as a feeder for non-linear editing systems. Offering great flexibility for professional video production, the DSR-50 serves as a high-performance portable VTR - anytime, anywhere.

\* Two models of the DSR-50 are available: the DSR-50 for NTSC and the DSR-50P for PAL.

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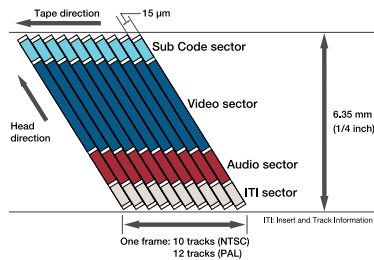
## DSR-50



## High Quality Recording

### The DVCAM Format for Excellent Picture and Sound Quality

The DSR-50 employs the DVCAM format, the professional extension of the worldwide standard DV format. The DVCAM format uses 8-bit digital component recording with a 5:1 compression ratio and a sampling rate of 4:1:1 (for NTSC) / 4:2:0 (for PAL). The unique compression algorithm provides excellent picture quality and superb multi-generation performance. It also offers superior digital audio performance, providing a wide dynamic range and excellent signal-to-noise ratio that are comparable to CD quality. Alternative audio channel modes can be selected: a two-channel mode with 48 kHz/16-bit recording or a four-channel mode with 32 kHz/12-bit recording.



### DV Format Recording and Playback

The DSR-50 is capable of recording and playing back DV format tapes (SP mode only)\*. The standard-size cassette can record for up to 270 minutes, while the mini-size cassette records for 60 minutes.

\* The transition from cut to cut may not be smooth when recorded in DV (SP) format. In between scenes where the recording format is changed from DV to DVCAM, or vice versa, transition may not be smooth. This is a normal and expected phenomenon. Audio dubbing is NOT possible when recorded in DV (SP) format.

### Standard and Mini Cassette Compatibility

DVCAM cassette tapes are available in two sizes: standard and mini. The standard-size DVCAM cassette provides a recording time of up to 184 minutes, while the mini-size cassette provides up to 40 minutes (when recording in DVCAM mode).



### Four Channel Digital Audio Recording

Four independently selectable audio channels can be recorded at the same time. The audio input can be chosen from CAM/XLR. The audio input level can be selected from -60/-20/+4 dBu. 48 V power can be supplied to the microphone.



## Versatile Operation

### 200,000-dot LCD Monitor

The DSR-50 is equipped with a built-in 2.5-inch full-color LCD monitor. Not only does this make menu operation easier, it can also serve as a field monitor, allowing you to check the audio status and review your footage without the need for an additional monitor.



### Jog Dial Menu Control


The menus can be controlled from a single, easy-to-use jog dial. Simply scroll up and down through the menus and push the dial to select the menu of your choice.

### Tape Duplication

With an i.LINK™ connection, the entire contents of a tape can be easily duplicated. The following duplication options can be selected: tape copy, tape copy with original timecode, or tape copy with Cassette Memory data (including ClipLink™ data\*).

\* The DSR-50 does not support the ClipLink function.

\*\* i.LINK stands for IEEE 1394-1995 standards and their revisions.

 is the logo for products that implement i.LINK.

### Compact, Lightweight Design

The unique design of the DSR-50 allows it to house a standard/mini cassette compatible tape mechanism, as well as an optional BP-L90A battery, all in a compact, lightweight body. The connector panel is positioned on the side, allowing easy access and enabling up-right use of the VTR.

- Low Power Consumption (15 W)
- Anti-rolling Mechanism
- Tape Label
- Index Write

### PAL/NTSC Playback

The DSR-50 is capable of PAL playback and the DSR-50P is capable of NTSC playback on the LCD monitor or an externally connected monitor\*.

\* The output signal level is not standard and therefore recommended for simple monitoring only with a monitor of the same color system as the original source.

## A Wide Range of Connections

### i.LINK

The DSR-50 is equipped with a six-pin, locking i.LINK connection. This connection allows one-cable digital transfer of audio, video and command signals. When making a recording via i.LINK, it is possible to record the timecode of the original, such as video that has been edited with a non-linear editing system.

### 26-pin Camera Connector

The DSR-50 comes with a 26-pin camera connector. DC out and Camera Return functions are available through this connection.

### Analog Component Output

The DSR-50 has an analog component output connection for more versatility, allowing dubbing to analog formats such as Betacam SP®.

### Timecode IN/OUT

The DSR-50 is equipped with timecode input and output connections, enabling synchronization with other equipment. It is also possible to have the actual time written in the User bits area.

- Control S
- REMOTE (foot switch)
- CONTROL Jack (accepts LANC command as player)

— DSR-50 with LCD Protection Cover



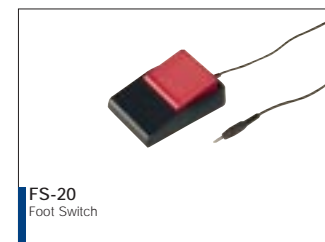
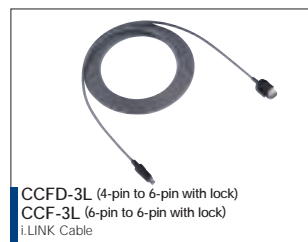
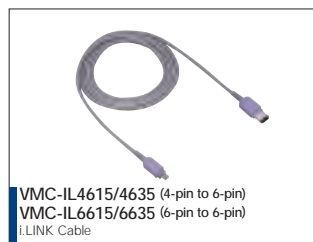
— Connector Panel



# Specifications

	DSR-50	DSR-50P
<b>● General</b>		
System	NTSC	PAL
DC input	XLR 4-pin (male), +12 V	
Power consumption	15 W	
Operating temperature	5 to 40 °C (41 to 104 °F)	
Storage temperature	-20 to 60 °C (-4 to 140 °F)	
Tape speed	Approx. 28.2 mm/sec (DVCAM mode), Approx. 18.8 mm/sec (DV SP mode)	
Recording/Playback time	184 minutes (DVCAM mode), 270 minutes (DV SP mode), with PDV-184ME cassette 40 minutes (DVCAM mode), 60 minutes (DV SP mode), with PDVM-40ME cassette	
Mass	3.9 kg (8 lb 9 oz), excluding battery and tape	
Dimensions	247 (W) x 92.5 (H) x 311 (D) mm (9 3/4 x 3 3/4 x 12 1/4 inches), excluding projections 279 (W) x 99 (H) x 315 (D) mm (11 x 4 x 12 1/2 inches), including projections	
<b>● Video</b>		
Rec mode	DVCAM/DV (SP mode only)	
PB mode	DVCAM/DV (SP mode only)	
<b>● Audio</b>		
Rec mode	48.0 kHz: 16 bit: 2ch / 32.0 kHz: 12 bit: 4ch / automatic (DV IN)	
PB mode	48.0 kHz: 16 bit: 2ch / 32.0 kHz: 12 bit: 4ch / 32.0 kHz: 16 bit: 2ch / 44.1 kHz: 16 bit: 2ch (automatically selected)	
<b>● Input/Output terminals</b>		
Video IN	Composite S (4-pin mini DIN)	1.0 Vp-p, 75 Ω, Sync negative Y: 1.0 Vp-p, 75 Ω, Sync negative C: 0.286 Vp-p (subcarrier burst) 75 Ω
Audio IN		XLR 3-pin (female) (+4 dBu/-20 dBu/-60 dBu) x 4, impedance more than 3 kΩ with +48 V power supply (independently switched for each channel)
Camera IN	Composite Component	26-pin camera connector 1.0 Vp-p, 75 Ω, Sync negative Y: 1.0 Vp-p, 75 Ω, Sync negative B-Y: 0.7 Vp-p, 75 Ω, R-Y: 0.7 Vp-p, 75 Ω
Reference IN		BNC, Black Burst 75 Ω, Sync negative (use Video IN)
Video OUT 1 (Monitor)	Composite	BNC, 1.0 Vp-p, 75 Ω, Sync negative Superimpose On/Off
Video OUT 2	Composite S (4-pin mini DIN)	BNC, 1.0 Vp-p, 75 Ω, Sync negative Y: 1.0 Vp-p, 75 Ω, Sync negative C: 0.286 Vp-p (subcarrier burst) 75 Ω
Component OUT		BNC x 3 Y: 1.0 Vp-p, 75 Ω, Sync negative B-Y/R-Y: 0.7 Vp-p, 75 Ω
Audio OUT		RCA pin x 4, -10 dBu Standard output level -20 dB from full bit
Audio OUT (Monitor)		RCA pin Standard output level -18 dB from full bit
DV IN/OUT		6-pin (with lock)
Timecode IN		BNC, 0.5 to 18 Vp-p, 10 kΩ
Timecode OUT		BNC, 2.2 Vp-p, 600 ohms / 1.2 Vp-p, 75 Ω
Control S		Stereo mini jack
Remote Control		Stereo mini jack (Edge High / Edge Low / Level High / Level Low)(Tally)
Control		Stereo minimini jack (compatible with LANC as a player)
Headphone jack (left side)		Stereo standard jack, -19 dBu, with Level Control
<b>● Other</b>		
Color LCD monitor		Yes (2.5 inch, 200,000 dots)
Supplied accessories		LCD Protection Cover, Cleaning Cassette

# Optional Accessories



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