

SONY®

NTSC

Digital Videocassette Recorder

DSR-30

DVCAM™



Digital technology has opened up new opportunities in every business arena and professional video production is no exception. The migration toward digital brings great advances in image quality and equipment versatility. The DVCAM™ format, originated in 1996, offers professional reliability and system flexibility which meets the demanding requirements of video professionals. Incorporating excellent editing capabilities, great picture and multigeneration quality, and superb tape durability, the DVCAM format offers exceptional digital performance. In terms of flexibility, DVCAM VTRs offer several integration alternatives by incorporating both digital and analog interfaces for totally digital systems or hybrid analog systems. DVCAM VTRs incorporate a dual-size cassette mechanism which accepts both mini and standard cassette tapes (without an adaptor) for record or playback for up to 3 full hours! In addition, both Sony's professional DVCAM format and consumer DV format use advanced metal evaporated tape. This enables consumer DV recorded tapes to play back in DVCAM VTRs and vice versa. The DSR-30, a DVCAM videocassette recorder, offers the superior image and sound quality inherent in the DVCAM format, as well as, convenient operational functions for recording, playback and simple editing. With the LANC interface, the DSR-30 realizes simple editing with other LANC-based equipment. The i.LINK (DV In/Out) interface makes it possible to dupe video, audio and data virtually without only quality deterioration. The DSR-30 also has a continuous auto repeat playback function and one-time playback function, ideal for kiosk and other point-of-information displays. These features make the DSR-30 an attractive VTR for a wide range of applications.

High Quality Recording

DVCAM Recording and Playback

The DSR-30 uses the DVCAM format to provide high video and audio quality and reliability for professional use. The 8-bit component digital recording with a 5:1 compression ratio and sampling at the rate of 4:1:1 provides superb picture quality and multi-generation performance

184-minute Recording

There are two sizes of DVCAM video cassette tapes, a mini size and a standard size. In spite of the narrow tape width (1/4-inch or 6.35 mm) and a compact cassette size, up to 184-minute recording is possible with a standard cassette (PDV-184ME) and 40-minute recording with a mini size cassette (PDVM-40ME).

DV Playback

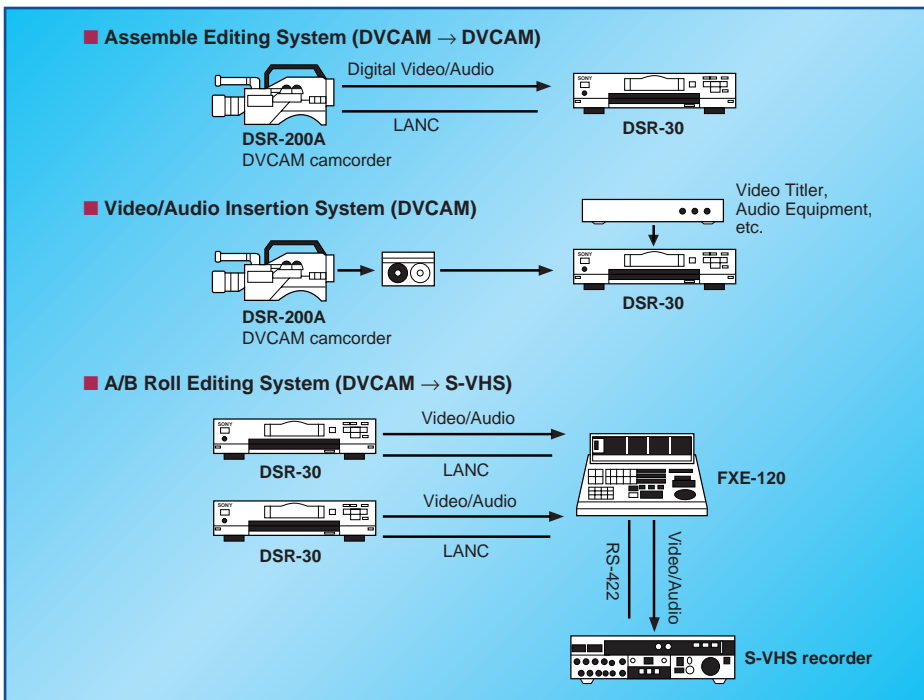
The DSR-30 is also capable of playing back the consumer DV format tape both the standard size and mini size (SP mode only).

Wide Track (15µm) to Assure Precise Editing

The DVCAM format is an extension of the consumer DV format, but the DVCAM format uses a wider track pitch (15µm) to ensure accurate editing for professional use.

High Quality Audio Recording

The DSR-30 is capable of PCM (Pulse Code Modulation) digital recording of stereo channel both in the 32kHz mode (4-channel/12-bit nonlinear) and in the 48kHz mode (2-channel/16-bit linear). In the 32kHz mode, another stereo sound can be added onto the previously recorded portions. If a higher sound quality is required, equivalent to DAT, record in the 48kHz mode.



Front panel

Editing Control

LANC Editing

The DSR-30 is equipped with LANC connectors. By connecting the DSR-30 with another LANC based recorder or a camcorder such as the DSR-200A or DSR-PD1, TC-based accurate editing is possible. Even without an editing controller, the DSR-30 is capable of assemble editing with a program memory of up to ten events. Insertion of video and/or audio signal is also possible without an editing controller. With the optional FXE-120 Video Editing System connected, the DSR-30 can serve as a feeder machine for a professional A/B roll editing system.

i.LINK (IEEE1394 based)

The DSR-30 has an i.LINK (DV In/Out) interface based on the IEEE1394 standard. When connected to other i.LINK interface equipped machine such as the DSR-20, DSR-200A or DSR-PD1, the DSR-30 provides a video/audio and data dubbing capability, virtually without any deterioration of quality.

Various Recording / Playback Functions

Auto Repeat Function

The DSR-30 is equipped with an Auto Repeat Function. In this mode, the DSR-30 automatically rewinds the tape just after the tape reaches the end of the tape, end of the program, or the first index point, then automatically starts playing back that segment again.

One Program Playback Function

In the One Program Playback mode, the DSR-30 automatically rewinds the tape to the beginning after playing back the program, then enters into a STANDBY mode. In museums, for example, the video playback can be started by the simple touch of a button.

External Timer Recording

The DSR-30 is capable of external timer recording when an external timer is connected. When the EXT Timer REC switch is set to ON, the DSR-30 automatically starts recording as soon as the AC power is turned on.

Function Lock

The DSR-30 has a Function Lock capability to inhibit any operation of the keys on the front panel or the control tray, thus avoiding misoperation.

Other Useful Features

Dual Cassette Mechanism

The DSR-30 incorporates a dual cassette mechanism which accepts both Mini size and Standard size DVCAM cassette tapes without an adaptor.

Built-in Control Tray

The DSR-30 has a built-in control tray which can be easily extended from the main unit. The Jog/Shuttle dial allows picture search at $\pm 1/5$ to 15 times normal speed in both forward and reverse, accompanied by audio playback at the same speed.

Search for the In-points

The DSR-30 can search for Index Points. An Index Point is recorded on the tape as a marked "in-point" every time a recording is started. The DSR-30 can also search for the photo data recorded on a cassette by the DSR-200 DVCAM Camcorder, or the point where the recorded date has been changed to a new one.

Clear Frame Picture

With Frame interpolation technology, the DSR-30 detects motion between the two fields within a frame and compensates for picture blurs. Thus, the DSR-30 can provide a clear frame picture even from moving images.

Wireless Remote Controller

The wireless remote controller RMT-DS30 supplied with the DSR-30 can be used for basic function control. If multiple DSR-30's are connected via the "Control S" Interface, they can be controlled by simply sending one command to the master deck.



Headphone/Microphone Input

The DSR-30 has stereo mini jacks for a headphone output and a microphone input on the front panel for operational convenience.



Rear panel

Peripheral Equipment



DSR-200A
Digital Camcorder



DSR-PD1
Digital Camcorder



FXE-120
Video Editing System



VMC-2DV/4DV
DV Cable



**PDVM-12ME/22ME/
32ME/40ME**

Digital Video Cassette
(Mini size)

**PDV-34ME/64ME/
94ME/124ME/184ME**

Digital Video Cassette
(Standard size)



PDVM-32N/40N

Digital Video Cassette
(Non IC type) (Mini size)

PDV-64N/124N/184N

Digital Video Cassette
(Non IC type) (Standard size)

Specifications

Input/Output

Video input:	Composite	BNC connector x 1 (rear), Pin jack x 1 (front), 1.0Vp-p, 75Ω, Sync negative
	S-Video:	4-pin mini DIN connector x 2 (front x 1, rear x 1) Y: 1.0Vp-p, 75Ω, Sync negative C: 0.286Vp-p (subcarrier burst), 75Ω, Sync negative
Video output:	Composite	BNC connector x 2, Pin jack x 1, 1.0Vp-p, 75Ω, Sync negative
	S video:	4-pin mini DIN connector x 2 Y: 1.0Vp-p, 75Ω unbalanced, sync negative C: 0.286Vp-p (subcarrier burst), 75Ω, unbalanced
Audio input:		Phono jack x 2 (stereo) (front x 1, rear x 1), Input level: 2Vrms (full bit)
Audio output:		Phono jack x 1 (stereo) Output level: 2Vrms (full bit)
i.LINK (DV In/Out):		IEEE1394 based (4-pin x 1)
LANC:		Stereo mini-mini jack x 2 (front x 1, rear x 1, priority on the front)
Headphone jack:		Stereo mini jack x 1
Microphone input:		Mini jack x 1 (low impedance)
Control S input:		Mini jack x 1
Control S output:		Mini jack x 1
Trigger input:		Phono jack x1 (active short)

General

Video signal standard:	EIA standards, NTSC color
Tape speed:	Approx. 28.193mm/sec. (DVCAM mode) Approx. 18.79mm/sec. (DV SP playback mode)
Maximum recording time:	184 minutes (with PDV-184ME)
Tape rewind time:	Less than 2 minutes with PDV-184ME
Search speed:	-2, -1, -1/5, Still, 1/5, x1, x2, Cue/Review (10 or 15 times)
Operating temperature:	5°C to 40°C (41°F to 104°F)
Storage temperature:	-20°C to 60°C (-4°F to 140°F)
Power requirement:	AC 120V, 50/60Hz
Power consumption:	32W
Dimensions (w x h x d):	430 x 129 x 374 mm (17 x 5 1/8 x 14 3/4 inches)
Mass:	Approx. 9.2kg (20 lb 5 oz)
Supplied accessories:	RMT-DS30 Wireless Remote Controller (x 1) R6 batteries (x2) LANC cable (x1) Cleaning cassette DCM12CL (x1) AC cable (x1) Operation manual (x1)

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