

SONY®

PAL

Digital Videocassette Recorder

DSR-30P

DVCAM™



**D**igitization is opening up new avenues to success in many business areas. Nowhere is this more true than in professional video production, where evolving digital technology is bringing proven advances in image quality and equipment versatility as well as reducing operating costs. DVCAM was born in 1996 as an extension of the consumer DV format, with which it is compatible. With its superb picture quality, excellent editing capabilities and multigeneration performance, DVCAM is the perfect choice of format in the highly competitive world of professional video.

The DSR-30P, 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 its LANC interface, the DSR-30P can be used for simple editing with other LANC-based equipment. The i.LINK (DV In/Out) interface makes it possible to copy video, audio and data without any quality deterioration. The DSR-30P also has a continuous auto repeat playback function and one-time playback function, ideal for kiosk and other point of information displays. These features makes the DSR-30P an attractive VTR for a wide range of applications.

## High Quality Recording

### DVCAM Recording and Playback

The DSR-30P uses the DVCAM format to provide high video and audio quality with the reliability necessary for professional use. 8-bit component digital recording with a 5:1 compression ratio and sampling at the rate of 4:2:0 provide superb picture quality and multi-generation performance.

### 184-minute Recording

There are two sizes of DVCAM video cassette: a mini size and a standard size. Although these tape have a narrow tape width (1/4-inch or 6.35 mm) and a compact cassette size, up to a 184-minute recording can be achieved with a standard size cassette (PDV-184ME) and a 40-minute recording with a mini size cassette (PDVM-40ME).

### DV Playback

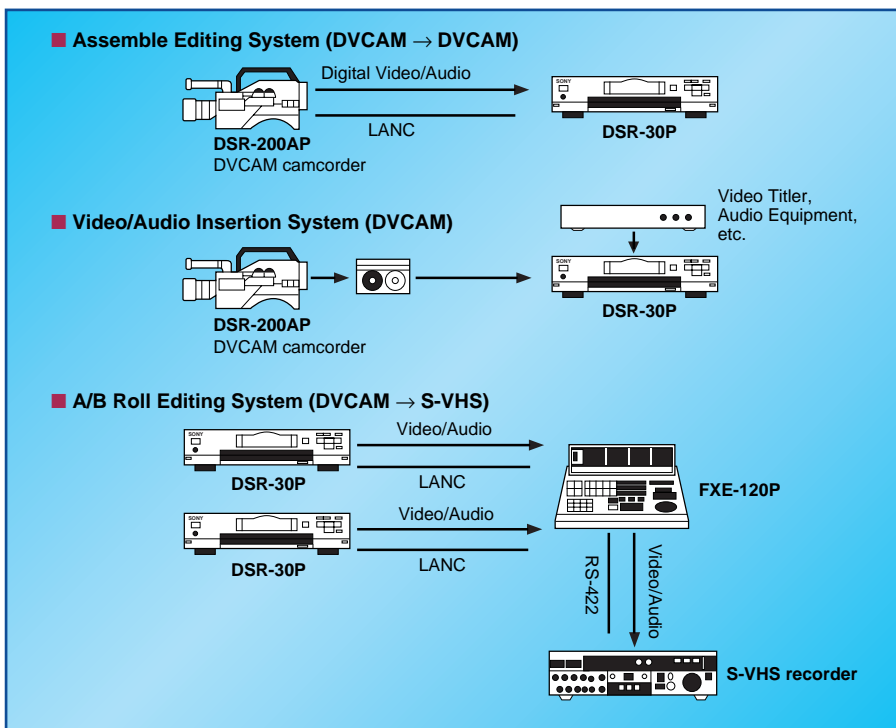
The DSR-30P is also capable of playing back both standard size and mini size tapes recorded in the consumer DV format (SP mode only).

### Wide Track (15µm) to Assure Consistent Editing

Developed from the consumer DV format, the DVCAM format uses a wider track pitch (15µm) which ensures consistent insert editing and reliable tape interchange in professional applications.

### High Quality Audio Recording

PCM (Pulse Code Modulation) recording is used in the DVCAM format. The DSR-30P can operate in either a 4-channel mode (32kHz, 12-bit non-linear sampling) or a 2-channel mode (48kHz, 16-bit linear sampling). In 4-channel mode, Additional stereo sound can be added onto previously recorded portions. If a higher sound quality is required, the equivalent of DAT quality recording can be achieved in the 2-channel mode.



Front panel

## Editing Control

### LANC Editing

The DSR-30P is fitted with front and rear LANC connectors to interface with an edit controller or direct to a second DSR-30P or other suitable recorder/player. If no editing controller is used, the DSR-30P is still capable of assemble editing using its programme memory of up to ten events. It is also possible to insert video and/or audio signals without an editing controller. Connected to the optional Sony FXE-120P Video Editing System, the DSR-30P can also serve as a feeder machine for a professional A/B roll editing system.

### i.LINK (IEEE1394 based)

The DSR-30P 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-20P, DSR-200AP or DSR-PD1P, the DSR-30P provides a video/audio and data copying capability with virtually no deterioration of quality.

## Various Recording/ Playback Functions

### Auto Repeat Function

The tape is automatically rewound at the end of the tape, the end of the programme or the first index point. It then automatically replays the same segment.

### One Programme Playback Function

In One Programme Playback mode, after playing back the programme, the DSR-30P automatically rewinds to the beginning of the tape and then enters STANDBY mode. The video playback can be re-started simply at the touch of a button, - this is ideal in museums and similar locations.

### 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 when AC power is supplied.

### Function Lock

The DSR-30P has a Function Lock which inhibits key operation on the front panel or the control tray, thus preventing misoperation.

## Other Useful Features

### Dual Cassette Mechanism

The DSR-30P incorporates a dual cassette mechanism which accepts both mini size and standard size DVCAM cassette tapes without a mechanical adaptor.

### Built-in Control Tray

The DSR-30P has control tray, carrying tape transport and operational controls, which slides forward for easy access. The Jog/Shuttle dial allows picture search at  $\pm 1/5$  to 18 times normal speed in both forward and reverse, accompanied by audio playback at the same speed.

### Search for In-points

The DSR-30P 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-30P also can search for the photo data recorded on a cassette by the DSR-200P DVCAM Camcorder, or the point where the recorded date changes to a new date.

### Clear Frame Picture

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

### Wireless Remote Controller

The Sony RMT-DS30 Wireless Remote Controller supplied with the DSR-30P can be used for basic function control. If multiple DSR-30P VTRs are connected via the "Control S" Interface, they can be controlled by simply sending one command to the master deck.



### Headphone/Microphone Connections

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



Rear panel

## Peripheral Equipment



**DSR-200AP**  
Digital Camcorder



**DSR-PD1P**  
Digital Camcorder



**FXE-120P**  
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, Phono x 1, 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: 0.3Vp-p (subcarrier burst), 75Ω, unbalanced
Video output:	Composite	BNC connector x 2, Phono 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: 0.3Vp-p (subcarrier burst), 75Ω, unbalanced
Audio input:	Phono x 2 (stereo)	(front x 1, rear x 1), Input level: 2Vrms (full bit)
Audio output:	Phono 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	x1 (active short)

### General

Video signal standard:	CCIR standard, PAL colour
Tape speed:	Approx. 28.193mm/sec. (DVCAM mode) Approx. 18.79mm/sec. (DV SP playback mode)
Maximum recording time:	184 minutes (with PDV-184ME Cassette)
Tape rewind time:	Less than 2 minutes (with PDV-184ME Cassette)
Search speed:	-2, -1, -1/5, Still, 1/5, x1, x2, Cue/Review (10 or 18 times) in forward and reverse
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 220 to 240V, 50/60Hz
Power consumption:	32W
Dimensions (w x h x d):	430 x 129 x 374mm (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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