Since its launch in 1996, DVCAM™ technology has brought many notable benefits to video professionals. The outstanding picture quality, superb multigeneration recording and extended recording time for up to three hours are some of key advantages of working with DVCAM products. Additionally, the DVCAM format offers excellent playback capability with the consumer DV format.

Based on the DVCAM format, the Sony DSR Series of recorders and camcorders offers many advantages: high performance editing capability, compact shooting packages, system versatility, excellent digital interfacing and a professional standard of reliability.
Now many new models have been added to the DSR Series to broaden its range of applications such as field acquisition/editing, simple editing, PC-based editing, dubbing and transmission.

Select from the Sony DSR Series and you will have chosen innovative equipment that will bring both new solutions to your production demands and performance benefits to your system.
**The DVCAM Format**

**Excellent Picture Quality via Digital Component Recording**

The DVCAM format uses 8-bit digital component recording with a 5:1 compression ratio same as the DV format and a sampling rate of 4:1:1 to provide excellent picture quality and superb multigeneration performance.

The DVCAM format is based on an intra-frame compression scheme which is ideal for editing applications. Based on DCT (Discrete Cosine Transform) techniques, each frame consists of 10 tracks. Each track has video, audio, ITI (Insert and Track Information) and sub code areas. ITI, which is a reference signal used for precise tracking, together with time code on the sub code area assure highly accurate editing performance. This technology provides much greater operational flexibility and facilitates complex multi-layering effects.

**High Quality Digital Audio**

The DVCAM format also has superior digital audio performance, with a wide dynamic range and an excellent signal-to-noise ratio that is comparable to CD quality audio. There are two selectable audio channel modes: a two-channel mode with 48 kHz/16-bit recording or a four-channel mode with 32 kHz/12-bit recording.

**Playback Compatibility with the DV Format**

The DVCAM format is a professional version of the consumer DV format, maintaining playback compatibility. All DVCAM equipment is capable of playing back DV recorded tapes without any adaptor. A wider track pitch of 15 µm (compared with 10 µm for consumer DV) gives the DVCAM format higher reliability for professional editing.

* **SDTI(QSDI)**

SDTI(QSDI) is the DV signal interface which conforms to the SDTI standard. The DSR-60 and DSR-70 VTRs require optional boards for SDTI(QSDI) operation.

**Unique Technologies and Features**

**Versatile Digital Interfaces**

**• SDTI(QSDI)**

The SDTI(QSDI) is a digital interface which handles compressed video as well as the sub code data and digital audio signals of the DVCAM format. It allows virtually degradation-free transfer of both video and audio signals between DSR Series VTRs that have an SDTI(QSDI) I/O, and between these VTRs and the ES-7 EditStation system in a non-linear editing configuration. The SDTI(QSDI) interface ensures that high quality pictures and sound are maintained during these operations.

- **SDTI (Serial Data Transport Interface)** is defined in SMPTE 305M. SDTI(QSDI) is the DV signal interface which conforms to the SDTI standard. The DSR-60 and DSR-70 VTRs require optional boards for SDTI(QSDI) operation.

**• SDI**

SDI (Serial Digital Interface) is the broadcast standard digital interface. With just a single digital connection, high quality pictures and sound can be transferred between DSR Series VTRs with an SDI I/O, and SDI-equipped devices such as D-1, Digital BETACAM™ and Betacam SX™ VTRs.

- **SDI** (DV In/Out)

SDI is a digital interface based on the IEEE1394 standard. It offers digital dubbing of video, audio and data, with virtually no deterioration of image and sound quality and with the simplicity of a single wire connection between equipment.

* **i.LINK™**

i.LINK is a digital interface based on the IEEE1394 standard. It provides a high-speed data transfer and dubbing at four times normal speed between the DSR-85 VTR and the Sony ES-7 EditStation™ system, or between two DSR-85 VTRs. This brings a remarkable reduction in the time-consuming uploading and dubbing process, without loss of picture and sound quality.

**ClipLink™ Operation**

ClipLink is a unique Sony system which conveys shooting data into the digital production process. During acquisition with the DSR-130 or DSR-300 Camcorder, the time code data of the in-point and out-point of each shot is recorded in the Cassette Memory of the DVCAM tape. At the same time, a still frame of each in-point, called the ‘Index Picture’, is recorded on the DVCAM tape to provide visual information associated with the time code.

When a cassette is loaded into the DSR-85, DSR-80, DSR-60 or DSR-70 VTR interfaced with the Sony EditStation system, all of its shot log information is loaded into an EditStation system and appears on the display. This visual information enables users to quickly select the shots they need to upload to the hard disk of an EditStation.

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**Unique Technologies and Features**

**High-speed Data Transfer**

The advanced drum mechanism and SDTI(QSDI)™ interface enable degradation-free data transfer and dubbing at four times normal speed between the DSR-85 VTR and the Sony ES-7 EditStation™ system, or between two DSR-85 VTRs. This brings a remarkable reduction in the time-consuming uploading and dubbing process, without loss of picture and sound quality.

**Versatile Digital Interfaces**

**• SDTI(QSDI)**

The SDTI(QSDI) is a digital interface which handles compressed video as well as the sub code data and digital audio signals of the DVCAM format. It allows virtually degradation-free transfer of both video and audio signals between DSR Series VTRs that have an SDTI(QSDI) I/O, and between these VTRs and the ES-7 EditStation system in a non-linear editing configuration. The SDTI(QSDI) interface ensures that high quality pictures and sound are maintained during these operations.

* **SDTI (Serial Data Transport Interface)** is defined in SMPTE 305M. SDTI(QSDI) is the DV signal interface which conforms to the SDTI standard. The DSR-60 and DSR-70 VTRs require optional boards for SDTI(QSDI) operation.

**• SDI**

SDI (Serial Digital Interface) is the broadcast standard digital interface. With just a single digital connection, high quality pictures and sound can be transferred between DSR Series VTRs with an SDI I/O, and SDI-equipped devices such as D-1, Digital BETACAM™ and Betacam SX™ VTRs.

* **SDI** (DV In/Out)

SDI is a digital interface based on the IEEE1394 standard. It offers digital dubbing of video, audio and data, with virtually no deterioration of image and sound quality and with the simplicity of a single wire connection between equipment.

* **i.LINK™**

i.LINK is a digital interface based on the IEEE1394 standard. It provides a high-speed data transfer and dubbing at four times normal speed between the DSR-85 VTR and the Sony ES-7 EditStation™ system, or between two DSR-85 VTRs. This brings a remarkable reduction in the time-consuming uploading and dubbing process, without loss of picture and sound quality.

**ClipLink™ Operation**

ClipLink is a unique Sony system which conveys shooting data into the digital production process. During acquisition with the DSR-130 or DSR-300 Camcorder, the time code data of the in-point and out-point of each shot is recorded in the Cassette Memory of the DVCAM tape. At the same time, a still frame of each in-point, called the ‘Index Picture’, is recorded on the DVCAM tape to provide visual information associated with the time code.

When a cassette is loaded into the DSR-85, DSR-80, DSR-60 or DSR-70 VTR interfaced with the Sony EditStation system, all of its shot log information is loaded into an EditStation system and appears on the display. This visual information enables users to quickly select the shots they need to upload to the hard disk of an EditStation.
superb quality pictures and a low error rate. DLC (Diamond Like Carbon) protective layer provides the enhanced protection of the tape surface which is essential to avoid the possibility of damage during long editing sessions. Finally, DVCAM tape provides a low frequency of dropouts and superior thermal stability. Cassettes are available with or without an IC Cassette Memory. This 16 kbit Cassette Memory stores ClipLink Log Data and Index Pictures which can enhance editing efficiency.

**Up to Three-hour Recording Capability**

DVCAM video cassette tapes are available in two sizes: standard and mini. Recording time of up to 184 minutes is provided with a standard size cassette and up to 40 minutes with a mini size cassette. These long recording times are achieved in very compact cassettes with a tape width of only 1/4 inch (6.35 mm).

* The DSR-200A Camcorder accepts a standard size cassette only. The DSR-PD100 Camcorder, the DSR-PD1 Camcorder, the DSR-V10 DVCAM Video Walkman® Recorder and the DRV-1000 DVCAM Drive accept a mini size cassette only.

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### Advantages

**Remote Control Interfaces for High Performance Editing**

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#### RS-422A

An RS-422A remote control interface is used for professional editing. It allows for these VTRs to interface not only with the EditStation system but also with Sony VTRs and editing controllers that have the same interface. RS-422A is also used to transfer ClipLink Log Data from the DVCAM Cassette Memory to the EditStation system.

#### LANC

A LANC interface makes it easy to perform simple edits using other LANC-based devices including consumer DV products that have high editing accuracy (±5 frames).

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### Full Compatibility with Analog Equipment

#### Analog Interfaces

The DSR Series is compatible with current analog video equipment. With analog interfaces for both video and audio, the DSR Series VTRs interface with conventional analog equipment such as Betacam SP®, S-VHS and Hi-8 VTRs, facilitating a smooth and gradual migration to a future digital system. Composite, component* and S-Video connections are provided for video. Four channel or two channel (selectable) inputs and outputs are provided for audio.

* The DSR-30, DSR-20 and DSR-V10 are not equipped with a component interface. The DSR-70 requires an optional board for analog component.

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### Dual Interface Mechanism

The DSR-1 Dockable Recorder has both Pro 76-pin Digital and Pro 50-pin connectors. These connections allow direct connection with several alternative Sony digital and analog cameras:

- DXC-D30, DXC-D30WS, DXC-637, DXC-537, DXC-537A, DXC-327A and DXC-327B. This feature allows the DSR-1 to be configured with a variety of different cameras to suit particular applications.

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### Dual-size Cassette Mechanism

The above VTRs and camcorders all have a dual-size cassette mechanism which accepts both standard and mini size cassettes without any adaptor. In the case of the DSR-1, this is a technological first for professional camcorders.
The Total Line-up for Highly Efficient Digital Production

For Acquisition
- DSR-130
- DSR-1
- DSR-200A
- DSR-85
- DSR-80
- DSR-PD1
- DSR-PD100
- DSR-V10

For Field Operation
- DRV-1000

For Video Production
- DSR-300
- DSR-200A
- DSR-80
- DSR-70
- DSR-PD1

For Transmission
- DSR-60
- DSR-40
- Flexicart

From Acquisition through Editing to Transmission — The Entire Digital Chain
**Application Examples**

**High-speed Nonlinear Editing System**
- Degradation-free picture and sound quality by using SDTI(QSDI) interfacing throughout the entire production process
- Time saving by high-speed data transfer
- More efficient editing with ClipLink operation

**Efficient Nonlinear Editing System**
- Superior multigeneration picture and sound quality by using SDTI(QSDI) or i.LINK(DV In/Out) interfacing
- More efficient editing with ClipLink operation (DSR-80 and DSR-60 only)
**Application Examples**

**Upwardly Compatible Editing System**
- Direct digital connection with SDI-equipped device
- Upward compatibility with the broadcasting system
- Possible to upload consumer DV recorded tapes as editing source material

**Linear Editing System**
- Improvement in picture quality by adding digital acquisition
- First step to a digital system
**Full DVCAM Linear Editing System**

- Compatible with a conventional analog editing system
- Smooth migration to a full digital system

**DSR-80** Editing Recorder

**DFS-300/500** DME Switcher

**PVE-500** Editing Control Unit

**DCR-VX1000** Digital Camcorder

**DSR-130** Digital Camcorder

**DSR-300** Digital Camcorder

**DFS-300/500** DME Switcher

**DFS-300/500** DME Switcher

**PVE-500** Editing Control Unit

**DCR-VX1000** Digital Camcorder

**DSR-130** Digital Camcorder

**DSR-300** Digital Camcorder

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**Low-cost, Simple Editing System**

- LANC-based, simple and efficient editing with A/B roll and effects
- Space saving with the compact DSR-20

**FXE-120** Video Editing System

**Composite or S-Video**

**Composite or S-Video**

**DSR-200A** Digital Camcorder

**DSR-PD100** Digital Camcorder

**DSR-PD1** Digital Camcorder

**DSR-200A** Digital Camcorder

**DSR-200A** Digital Camcorder
**Application Examples**

### Digital Dubbing System
- Simple dubbing system that does not require an additional controller
- Degradation-free dubbing quality by using SDTI(QSDI) or i.LINK (DV In/Out) interfacing
- High-speed dubbing between two DSR-85 VTRs

![Digital Dubbing System Diagram]

### Field Operation System
- **Two-camera Switching Recording System**
  - Flexible recording by alternately switching between two camcorders
  - Ideal for field recording with a minimum system and smaller crew

![Field Operation System Diagram]

- **Simple Field Editing System**
  - Compact and portable system
  - Assemble editing with up to 99 events x four programs

![Simple Field Editing System Diagram]
**PC Control System**

- Simple system using PC control
- Ideal for automatic program transmission in CATV, corporate communication, etc.

**PC-based Editing System**

- Low-cost, PC-based editing system
- Full digital editing by using i.LINK (DV In/Out) interfacing

**Flexicart™ System**

- Outstanding picture and sound quality by maintaining the signal in the same digital format from acquisition to transmission
**DsR-130**

Two-piece Camcorder

- Combination of the DXC-D30 Digital Video Camera and the DSR-1 Dockable Recorder, equivalent to one-piece camcorder
- Compact and lightweight: 7.3 kg (16 lb 2 oz) including a viewfinder, microphone, lens, battery, tape and carrying handle
- DSP (Digital Signal Processing)
- Three 2/3-inch Power HAD™ CCDs for low smear level, high sensitivity and high S/N ratio
- Superb picture quality for the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- Long recording time; up to 184 minutes with a standard cassette and 40 minutes with a mini cassette
- ClipLink operation
- TruEye™ process for faithful color reproduction

**DsR-1**

Dockable Recorder

- Compact and lightweight: 2.85 kg (6 lb 4 oz) including battery
- Perfect camcorder operation by docking with the DXC-D30 Digital Video Camera
- Superb picture quality for the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- Long recording time; up to 184 minutes with a standard cassette and 40 minutes with a mini cassette
- Dual-size cassette mechanism: both standard cassettes and mini cassettes accepted
- ClipLink operation

- Dual interface mechanism: Pro 76-pin Digital and Pro 50-pin interfaces for direct connection with both Sony digital and analog cameras
- Full color picture playback capability without any playback adaptor
- Record review function
- Frame accurate back space editing
- Built-in SMPTE time code generator/reader
- Time base stabilizer
- Full VTR function control (Fast Forward/Rewind/Play/Stop/Eject)
- Comprehensive 8-digit LCD
**DSR-300**

One-piece Camcorder

- Highly mobile one-piece design
- Compact and lightweight: 5.7 kg (12 lb 9 oz) including viewfinder, microphone, lens, battery and tape
- Compact crew package with the LC-300SFT Soft Carrying Case
- DynaFit™ shoulder pad for comfortable molding to any shoulder
- DSP (Digital Signal Processing)
- Three 1/2-inch Power HAD™ CCDs for low smear level, high sensitivity and high S/N ratio
- Superb picture quality for the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- Long recording time; up to 184 minutes with a standard cassette and 40 minutes with a mini cassette
- ClipLink operation*1
- RM-VJ1 Remote Control Unit with a professional microphone and a hand-held LCD screen for a one-person operation
- TruEye™ process for faithful color reproduction
- DynaLatitude™ feature
- Skin Detail with skin tone detection
- SetupLog™ function for automatic recording of camera setting data
- Total Level Control System (TLCS) for automatically extended range of light control
- EZ Focus and EZ mode for quick camera setup
- Auto Tracing White Balance (ATW) function
- Adjustable Black Stretch and Compress
- Dual Zebra viewfinder indication of over exposure
- Video light connection for Anton Bauer® Ultra Light 2
- Menu control by Jog Dial operation
- Time code superimposed during playback
- Edit Search function
- Freeze Mix function
- 26-pin VTR interface connection
- Compact and lightweight BP-L40 Lithium-ion Battery
- CA-WR855 Camera Adapter for the WRR-855A Wireless Receiver

*1 The optional DSBK-301 Index Picture Board is required.

**DSR-200A**

One-piece Camcorder

- Compact and lightweight: 4.7 kg (10 lb 8 oz) including tape and battery holder with three battery packs
- DSP (Digital Signal Processing)
- Three 1/3-inch CCDs for accuracy of color reproduction
- Superb picture quality for the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- Long recording time; up to 184 minutes with a standard cassette
- Long operating time; up to 450 minutes with three NP-F950 Battery Packs (fully charged)
- Optical SteadyShot® function for stable picture shooting without sacrificing picture quality
- Time/date data superimposition on output pictures
- Easy-to-use viewfinder, with high horizontal resolution
- Photo mode and frame interpolation for recording a clear frame picture for seven seconds
- Audio dubbing capability (32 kHz/12-bit only)
- Time code capability
- i.LINK (DV In/Out) interface based on the IEEE1394 standard
- 16:9 aspect ratio capability
- LANC interface for simple editing with a LANC-based recorder or editing system
- RMT-806 Remote Controller (supplied) for control of basic functions

* The DSR-200A accepts only standard DVCAM and DV cassettes.
**DSR-PD100**

- Compact and lightweight: 1 kg (2.2 lbs) including tape and battery
- DSP (Digital Signal Processing)
- 1/4-inch CCD with the capability to switch to scan in two ways: Interlace Scan and Progressive Scan
- Superb picture quality for the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- 40 minutes recording time with a mini cassette*1
- Super SteadyShot® function for stable picture shooting without sacrificing picture quality
- Extreme close-up shots with 48x digital and 12x optical zoom
- Color 3.5-inch LCD monitor
- InfoLITHIUM™ system; Lithium-ion battery power system which shows the amount of power remaining in the battery, to within one minute accuracy

**DSR-PD1**

- Compact and handy: 520 g (1.2 lb)
- 1/3-inch CCD
- Superb picture quality for the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- 40 minutes recording time with a mini cassette*1
- Super SteadyShot® function for stable picture shooting without sacrificing picture quality
- Extreme close-up shots with 20x digital and 10x optical zoom
- 2 1/2-inch Swivelscreen™ color LCD advanced viewfinder
- InfoLITHIUM™ system; Lithium-ion battery power system which shows the amount of power remaining in the battery, to within one minute accuracy
- Photo mode for high quality still images
- A/V digital fade-to-black/silence function
- Audio dubbing capability (32 kHz/12-bit only)
- Time code capability
- i.LINK (DV In/Out) interface based on the IEEE1394 standard
- LANC interface for simple editing with a LANC-based recorder or editing system
- RMT-811 Wireless Remote Commander (supplied)
- Wide angle conversion lens (supplied)
- XLR adaptor for connecting external professional microphones

*1 The DSR-PD100 accepts only mini DVCAM and DV cassettes.

*1 The DSR-PD1 accepts only mini DVCAM and DV cassettes.
**DSR-85**

*High-speed Editing Recorder*

- Superb picture quality for the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- Long recording time; up to 184 minutes with a standard cassette and 40 minutes with a mini cassette
- High-speed data transfer and full tape dubbing via SDTI(QSDI) interface
- ClipLink operation
- Versatile digital interfaces: SDTI(QSDI), SDI*1 and AES/EBU digital audio
- Extensive analog interfaces: composite, component and S-Video
- Frame accurate editing capability
- RS-422A remote control interface

- Built-in SMPTE time code generator/reader
- Time base corrector
- High-speed picture search over a range of 32 times normal speed, in both forward and reverse
- Digital slow function over a range of 0 to 0.25 times normal speed, in both forward and reverse
- Jog audio over a range of 1/30 to 1 times normal speed, in both forward and reverse
- Newly developed digital laminated head for high quality and reliability
- SIRCS (Sony Integrated Remote Control System) interface for DSRM-10 Remote Control Unit

*1 The optional DSBK-120 SDI Input/Output Board is required.

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**DSR-80**

*Editing Recorder*

- Superb picture quality for the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- Long recording time; up to 184 minutes with a standard cassette and 40 minutes with a mini cassette
- ClipLink operation
- Full tape dubbing with ClipLink Log Data
- Versatile digital interfaces: SDTI(QSDI), SDI*1 and AES/EBU digital audio
- Extensive analog interfaces: composite, component*2, RGB*2 and S-Video
- Frame accurate editing capability
- RS-422A remote control interface

- Built-in SMPTE time code generator/reader
- Time base corrector
- High-speed picture search over a range of 32 times normal speed, in both forward and reverse
- Digital slow function over a range of 0 to 0.39 times normal speed, in both forward and reverse
- Jog audio over a range of 1/30 to 1 times normal speed, in both forward and reverse
- Closed caption function
- SIRCS (Sony Integrated Remote Control System) interface for DSRM-10 Remote Control Unit

*1 The optional DSBK-120 SDI Input/Output Board is required.
*2 Selectable by a switch on the rear panel
**Video Production**

### DSR-60
**Editing Player**

- Superb picture quality for the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard cassette and 40 minutes with a mini cassette
- ClipLink operation
- Versatile digital interfaces: SDTI(QSDI)*1 and SDI*2
- Extensive analog interfaces: composite, component*3, RGB*3 and S-Video
- Frame accurate editing capability
- RS-422A remote control interface
- Built-in SMPTE time code reader
- Time base corrector
- High-speed picture search over a range of 32 times normal speed, in both forward and reverse
- Digital slow function over a range of 0 to 0.33 times normal speed, in both forward and reverse
- Jog audio over a range of 1/30 to 1 times normal speed, in both forward and reverse
- Auto repeat/power-on playback function
- Closed caption function
- SIRCS (Sony Integrated Remote Control System) interface for DSRM-10 Remote Control Unit

*1 The optional DSBK-110 QSDI Output Board is required.
*2 The optional DSBK-100 SDI Output Board is required.
*3 Selectable by a switch on the rear panel

### DSR-30
**Recorder**

- Superb picture quality of the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard cassette and 40 minutes with a mini cassette
- i.LINK (DV In/Out) interface based on the IEEE1394 standard
- LANC interface for simple editing with a LANC-based recorder or editing system
- Auto repeat function
- One-program playback function to automatically rewind to the beginning of a tape and enter Standby mode
- Power-on playback/recording capability
- External timer recording
- Duplication mode with original time code
- Function lock to avoid accidental operation
- Built-in control tray with a Jog/Shuttle dial with a range of 1/5 to 15 times normal speed, in both forward and reverse
- Index/Photo/Date search functions (when using a cassette with IC Cassette Memory)
- Clear frame picture
- RMT-DS30 Wireless Remote Controller (supplied) for control of basic functions
- Headphone/microphone connections
DSR-20 Recorder

- Superb picture quality for the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- Long recording time; up to 184 minutes with a standard cassette and 40 minutes with a mini cassette
- i.LINK (DV In/Out) interface based on the IEEE1394 standard
- LANC interface for simple editing with a LANC-based recorder or editing system
- Auto repeat function
- Power-on playback/recording capability
- External Sync*1 In connector for synchronized playback
- RS-232C and Control S interfaces for remote control operation
- Duplication mode with original time code
- Compact and lightweight (half-rack width)
- AC/DC operation
- Index/Photo/Date search functions (when using a cassette with IC Cassette Memory)
- RMT-DS20 Wireless Remote Controller (supplied) for control of basic functions

*1 The DSR-20 locks to H-sync or V-sync.

DRV-1000 DVCAM Drive

- Superb picture quality for the DVCAM format
- Designed to fit directly into a standard PC 5.25-inch disk drive bay
- i.LINK (DV In/Out) interface based on the IEEE1394 standard
- LANC interface for simple editing with a LANC-based recorder or editing system
- Analog video and audio outputs
- DC power operation
DSR-70
Portable Editing Recorder

- Superb picture quality for the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard cassette and 40 minutes with a mini cassette
- Compact, all-in-one package including a 6.4-inch VGA LCD monitor, a full cut-editing controller with a Jog/Shuttle dial and an audio speaker
- VTR-to-VTR editing as a double deck editor by docking two DSR-70 units or the DSR-70 and the DNW-A25 Betacam SX portable editing recorder
- Two-way power supply system for operation on either AC or DC power
- Two-camera switching recording*
- Sequential recording in the double deck configuration
- Parallel-run recording to make two docked DSR-70 units record simultaneously
- ClipLink operation: cue up to Mark In/Cue address, change of Mark In/Out points, change of OK/NG status and creation of new Mark In/Out points
- Audio MIX/SWAP recording
- Versatile digital interfaces: SDTI(QSDI)*2, SDI*3 and i.LINK (DV In/Out)*4
- Extensive analog interfaces: composite, component*5 and S-Video
- Frame accurate editing capability
- RS-422A remote control interface
- Built-in SMPTE time code generator/reader
- Process control for stabilizing video signals
- High-speed picture search over a range of 32 times normal speed, in both forward and reverse
- Digital slow function over a range of 0 to 0.5 times normal speed, in both forward and reverse
- Jog audio over a range of 1/30 to 1 times normal speed, in both forward and reverse
- Full tape dubbing with ClipLink Log Data
- 16:9/4:3 switchable

DSR-70
Portable Editing Recorder

- Superb picture quality for the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard cassette and 40 minutes with a mini cassette
- Compact, all-in-one package including a 6.4-inch VGA LCD monitor, a full cut-editing controller with a Jog/Shuttle dial and an audio speaker
- VTR-to-VTR editing as a double deck editor by docking two DSR-70 units or the DSR-70 and the DNW-A25 Betacam SX portable editing recorder
- Two-way power supply system for operation on either AC or DC power
- Two-camera switching recording*
- Sequential recording in the double deck configuration
- Parallel-run recording to make two docked DSR-70 units record simultaneously
- ClipLink operation: cue up to Mark In/Cue address, change of Mark In/Out points, change of OK/NG status and creation of new Mark In/Out points
- Audio MIX/SWAP recording
- Versatile digital interfaces: SDTI(QSDI)*2, SDI*3 and i.LINK (DV In/Out)*4
- Extensive analog interfaces: composite, component*5 and S-Video
- Frame accurate editing capability
- RS-422A remote control interface
- Built-in SMPTE time code generator/reader
- Process control for stabilizing video signals
- High-speed picture search over a range of 32 times normal speed, in both forward and reverse
- Digital slow function over a range of 0 to 0.5 times normal speed, in both forward and reverse
- Jog audio over a range of 1/30 to 1 times normal speed, in both forward and reverse
- Full tape dubbing with ClipLink Log Data
- 16:9/4:3 switchable

* The optional DSBK-180 Dual Video Input Board is required.
** The optional DSBK-150 SDTI(QSDI) Input/Output Board is required.
*** The optional DSBK-160 SDI Input/Output Board is required.
**** The optional DSBK-140 i.LINK/DV Input/Output Board is required.
***** The optional DSBK-170 Analog Component Input/Output Board is required.

Note: Optional interface boards (DSBK-140/150/160/170) cannot be used in combination with each other. However, these boards can be used together with the optional DSBK-180.
• Accepts a maximum of six DSR-80 or DSR-60 units*1
• Designed to be modular and reconfigurable with optional VTRs and cassette bin units to meet differing applications
• Multiple inputs and outputs
• Fully automated, simultaneous record, playback and time delay
• Standard traffic and automation interface
• PC-driven, user-friendly Windows environment

### Flexicart Multi-cassette System

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<th>Configuration (VTR/Bin Unit ratio)</th>
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<tbody>
<tr>
<td>DSR-80</td>
<td>BKFC-54</td>
<td>BKFC-21DV</td>
<td>VTRs 7 Bin Units (4U high)</td>
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<tr>
<td>DSR-60</td>
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<td>BKFC-210*2</td>
<td>1 7 147</td>
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</tr>
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<td></td>
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<td></td>
<td>2 7 147</td>
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</tr>
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<td></td>
<td></td>
<td></td>
<td>3 6 126</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4 5 105</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>5 4 84</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6 3 63</td>
<td></td>
</tr>
</tbody>
</table>

*1 Available for standard cassettes only
*2 BKFC-210 DV Hand Kit: a robotics hand for handling DVCAM standard cassettes
# Feature Comparison of Camcorders

<table>
<thead>
<tr>
<th>Feature</th>
<th>DSR-130</th>
<th>DSR-300</th>
<th>DSR-200A</th>
<th>DSR-PD100</th>
<th>DSR-PD1</th>
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<tbody>
<tr>
<td><strong>Cassette</strong></td>
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<tr>
<td>Standard size cassette</td>
<td>●</td>
<td>●</td>
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<td>—</td>
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<tr>
<td>Mini size cassette</td>
<td>●</td>
<td>●</td>
<td>—</td>
<td>●</td>
<td>●</td>
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<td><strong>Camera Section</strong></td>
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<tr>
<td>TruEye process</td>
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<tr>
<td>DynaLatitude</td>
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<td>●</td>
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<td>—</td>
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<tr>
<td>Skin Detail</td>
<td>●</td>
<td>●</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Clean Detail</td>
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<td>—</td>
<td>—</td>
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<td>Camera Setup File</td>
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<td>SetupNavi</td>
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<td>SetupLog</td>
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<td>TLCS (Total Level Control System)</td>
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<td>EZ Focus</td>
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<td>EZ mode</td>
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<td>ATW (Auto Tracing White Balance)</td>
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<td>Super SteadyShot</td>
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<td>●</td>
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<td><strong>VTR Section</strong></td>
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<td>ClipLink</td>
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<tr>
<td>Photo mode</td>
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<td><strong>Interface</strong></td>
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<td>i.LINK (DV In/Out)</td>
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<td>—</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>LANC</td>
<td>—</td>
<td>—</td>
<td>●</td>
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- ● : Available
- — : Not available
# Feature Comparison of VTRs

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<thead>
<tr>
<th></th>
<th>DSR-85</th>
<th>DSR-80</th>
<th>DSR-70</th>
<th>DSR-60</th>
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<tr>
<td><strong>Cassette</strong></td>
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<td>●</td>
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<td>Mini size cassette</td>
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<td>SDTI(QSDI)</td>
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<td>● (Option)</td>
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<td><strong>Analog Interface</strong></td>
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<td>Composite</td>
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<td>S-Video</td>
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<td>● (Option)</td>
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<td>RS-422A</td>
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<td>RS-232C</td>
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<td>LANC</td>
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<td><strong>Editing Capability</strong></td>
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<td>ClipLink</td>
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<td>Time code generator/reader</td>
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<td>High-speed data transfer</td>
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<td>Assemble editing</td>
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<td>Insert editing</td>
<td>(Video/Audio/TC)</td>
<td>(Video/Audio/TC)</td>
<td>(Video/Audio/TC)</td>
<td>—</td>
<td>(Video/Audio)</td>
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<tr>
<td>Search speed</td>
<td>Up to x ±32</td>
<td>Up to x ±32</td>
<td>Up to x ±32</td>
<td>Up to x ±32</td>
<td>Up to x ±15</td>
<td>Up to x ±15</td>
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<tr>
<td>Digital slow</td>
<td>x ±0 to 0.25</td>
<td>x ±0 to 0.39</td>
<td>x ±0 to 0.5</td>
<td>x ±0 to 0.33</td>
<td>x ±1/10, 1/5</td>
<td>x ±1/10, 1/5</td>
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<td>Jog audio</td>
<td>x ±1/30 to 1</td>
<td>x ±1/30 to 1</td>
<td>x ±1/30 to 1</td>
<td>x ±1/30 to 1</td>
<td>x ±1/10, 1/5, 1</td>
<td>x ±1/10, 1/5, 1</td>
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<td><strong>Others</strong></td>
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<td>DV playback capability</td>
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<td>Auto repeat/power-on playback</td>
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<td>—</td>
<td>—</td>
<td>●</td>
<td>●</td>
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</tbody>
</table>

* Output only
** Reader only

: Available
— : Not available
Optional Accessories & Peripheral Equipment

For Acquisition

RM-VJ1
Remote Control Unit

RM-M7G
Remote Control Unit

RM-LG1
Remote Control Unit

CCU-M5
Camera Control Unit

CCU-M7
Camera Control Unit

CA-WR855
Camera Adaptor

NP-1B
Rechargeable Battery Pack

NP-F950/B
Rechargeable Battery Pack

NP-F200/B
Rechargeable Battery Pack

BP-90A
Rechargeable Battery Pack

DC-520
Battery Adaptor for NP-1B

DC-500
Battery Adaptor for BP-90A

DC-210
Battery Adaptor for BP-90A (waist belt type)

DC-L1
Battery Adaptor for NP-1B

DC-L90
Battery Adaptor for BP-90A

NPA-10000/B
Battery Adaptor for three NP-F950/Bs

BC-1WD
Battery Charger for four NP-1Bs

BC-410
Battery Charger for four NP-1Bs/BP-90As

ACC KIT-201
Accessory Kit for DSR-200A
<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC KIT-PD1</td>
<td>Accessory Kit for DSR-PD1</td>
</tr>
<tr>
<td>BP-L60A/L90A</td>
<td>Rechargeable Battery Pack</td>
</tr>
<tr>
<td>BC-L50</td>
<td>Battery Charger for BP-L40/L60A/L90A</td>
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<tr>
<td>BC-L100</td>
<td>Battery Charger for BP-L40/L60A/L90A/NP-1B/BP-90A</td>
</tr>
<tr>
<td>AC-DN1</td>
<td>AC Adaptor</td>
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<tr>
<td>AC-DN2A</td>
<td>AC Adaptor</td>
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<tr>
<td>AC-V900/B</td>
<td>AC Adaptor/Charger</td>
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<tr>
<td>AC-V615/B</td>
<td>AC Adaptor/Charger</td>
</tr>
<tr>
<td>AC-V100/B</td>
<td>AC Adaptor/Charger</td>
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<tr>
<td>ECM-672/670</td>
<td>Electret Condenser Microphone</td>
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<tr>
<td>CAC-12</td>
<td>Microphone Holder</td>
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<tr>
<td>CMA-8A</td>
<td>Camera Adaptor</td>
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<tr>
<td>C-74</td>
<td>Condenser Microphone</td>
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<tr>
<td>EC-0.5C2</td>
<td>Microphone Cable</td>
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<tr>
<td>WRT-810A</td>
<td>UHF Synthesized Wireless Microphone</td>
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<tr>
<td>WRT-820A</td>
<td>UHF Synthesized Transmitter</td>
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<tr>
<td>WRR-855A</td>
<td>UHF Synthesized Tuner</td>
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<tr>
<td>BKW-L601</td>
<td>Battery Adaptor for BP-L60A/L90A</td>
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</table>
Optional Accessories & Peripheral Equipment

DXF-701WS
1.5-inch Monochrome Viewfinder

DXF-51
5-inch Monochrome Viewfinder

VCT-U14
Tripod Adaptor

CAC-4
Chest Pad

DR-100
Intercommunication Headset

CCZ-A2/A5/A10
Connecting Cable (26-pin - 26-pin)

CCZQ-A2/A5/A10
Connecting Cable (26-pin - 14-pin)

LC-304SFT
Soft Carrying Case

LC-300SFT
Soft Carrying Case

LC-421
Carrying Case

LCR-1
Rain Cover

DSBK-301
Index Picture Board

DSBK-201
Adaptor for WRR-810A

MSA-4A
Memory Stick (4 MB)

MSA-8A
Memory Stick (8 MB)

VMC-IL4415/IL4435/
IL4615/IL4635
i.LINK Cable (1.5 m/3.5 m)

For Field Operation

DSBK-140
i.LINK/DV Input/Output Board

DSBK-150
SDTI/OSDI Input/Output Board

DSBK-160
SDI Input/Output Board
Optional Accessories & Peripheral Equipment

For Video Production

DSBK-100
SDI Output Board

ES-7
EditStation System

ES-3
EditStation System

PVE-500
Editing Control Unit

DSBK-110
QSDI Output Board

DFS-500
DME Switcher

DFS-300
DME Switcher

RM-450A
Editing Remote Controller

DFS-100
Time Code Input/Output Board

DSRM-10
Remote Control Unit

FXE-120
Editing System

IF-FXE2
LANC Interface Box

DSRM-10
Remote Control Unit

UVR-60
TBC Remote Control Unit

RMM-130
Rack Mount Kit

DSBK-130
Time Code Input/Output Board

VMC-IL4415/IL4435/IL4615/IL4635
i.LINK Cable (1.5 m/3.5 m)

RCC-5G/10G/30G
Remote Control Cable (5 m/10 m/30 m)

PVE-500
Editing Control Unit

DSR-60

DSR-80

DSR-60

DSR-60

DSR-60

DSR-30

DSR-20

DSR-30

DSR-60

DSR-30

DSR-20

DSR-30

DSR-20

DSR-30

DSR-20

DSR-60
PDV-64N/124N/184N
Digital Video Cassette (Non IC type/Standard size)

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)

PDVM-12ME/22ME/32ME/40ME
Digital Video Cassette (Mini size)

PDV-64MEM/124MEM/184MEM
Digital Video Cassette (Master tape/Standard size)

PDVM-12CL
Cleaning Cassette Tape (Mini size)

PDV-12CL
Cleaning Cassette Tape (Standard size)
Specifications

DSR-130/DSR-300/DSR-200A/DSR-PD100/DSR-PD1 Camcorders

**General**

- **Power requirements**: DC 12 V (10.5 to 17 V)
- **Power consumption**: 24.8 W (with VF), 22.1 W (without VF)
- **Operating temperature**: 0 ˚C to 40 ˚C (32 ˚F to 104 ˚F)
- **Storage temperature**: -20 ˚C to 60 ˚C (-4 ˚F to 140 ˚F)
- **Dimensions (WxHxD)**: 272 x 247 x 534 mm (9 5/8 x 9 3/4 x 21 1/8 inches) (including VF, microphone, lens, battery and tape)

**Camera Section**

- **Lens mount**: Sony 2/3-inch Bayonet mount
- **Built-in filters**: 1: 3200 K  2: 5600 K+1/8ND  1: 3200 K/3000 K (Switchable)  2: 5600 K+1/8ND
- **Image device**: 3-chip 2/3-inch, Interline Transfer CCD
- **Effective picture elements**: 768 (H) x 494 (V)
- **Optics**: F1.4 medium index prism system
- **Image device**: 3-chip 2/3-inch, Interline Transfer CCD

**Optics**

- **Dynamic range**: More than 80 dB
- **S/N ratio**: More than 55 dB
- **Bandwidth**:
  - **Luminance**: 30 Hz to 5.0 MHz ±1.0 dB, 5.75 MHz +0/-3.0 dB (typical measurement), Chrominance: 30 Hz to 1.5 MHz +1/3 dB, 2.25 MHz -1.0/5.0 dB

**Input/Output Connectors**

- **REMOTE 1**: Stereo mini
- **VF**: DIN 8-pin, 20-pin
- **Lens**: 12-pin
- **Battery Terminal**: 5-pin
- **Earphone Out**: Stereo mini jack
- **DC Out**: 4-pin
- **DC In**: XLR 4-pin, male
- **Monitor Out**: BNC, 1.0 Vp-p, sync negative, 75 ohm
- **Audio CH-1/2 Out**: RCA pin, -10 dBu, 47 k ohm
- **S-Video**: DIN 4-pin
- **Y/C**: Y: 1.0 Vp-p, sync negative, 75 ohm
- **Ext Audio In CH-1/2**: XLR 3-pin x2 female, -60 dBu, 3 k ohm
- **Time Code In**: BNC, 0.5 Vp-p to 18 Vp-p, 10 k ohm
- **Time Code Out**: BNC, 1.0 Vp-p, 75 ohm
- **VF In**: XLR 3-pin female
- **VCR In**: RCA pin, -20 dBu, 75 ohm
- **VCR Out**: RCA pin, 0 dBu, 75 ohm
- **VCR Audio In**: RCA pin, -20 dBu, 75 ohm
- **VCR Audio Out**: RCA pin, 0 dBu, 75 ohm

**Supplied Accessories**

- **Operation Manual**: (x1),  ClipLink Guide (x1), Shoulder Strap (x1), RM-LG1 Remote Control Unit (x1), Handle (x1), Flange Focal Length Adjustment Test Chart (x1), Switch Guard (x1), Operation Manual (x1), ClipLink Guide (x1)

**Power Consumption**

- **Approx. 60 min. with NP-1B Battery**: 24.8 W (with VF), 22.1 W (without VF)
- **Approx. 80 min. with BP-L40**: 24.8 W (with VF), 22.1 W (without VF)
- **Approx. 100 min. with BP-L60A**: 24.8 W (with VF), 22.1 W (without VF)

**Continuous recording time**

- **Approx. 60 min. with NP-1B Battery**: 24.8 W (with VF), 22.1 W (without VF)
- **Approx. 80 min. with BP-L40**: 24.8 W (with VF), 22.1 W (without VF)
- **Approx. 100 min. with BP-L60A**: 24.8 W (with VF), 22.1 W (without VF)

**Audio performance**

- **Dynamic range**: More than 55 dB

**Supplied Accessories**

- **Operation Manual**: (x1),  ClipLink Guide (x1), ClipLink Guide (x1), Shoulder Strap (x1), RM-LG1 Remote Control Unit (x1), Handle (x1), Flange Focal Length Adjustment Test Chart (x1), Switch Guard (x1), Operation Manual (x1), ClipLink Guide (x1)

**Power consumption**

- **24.8 W (with VF)**, 22.1 W (without VF)
- **Approx. 60 min. with NP-1B Battery**: 24.8 W (with VF), 22.1 W (without VF)
- **Approx. 80 min. with BP-L40**: 24.8 W (with VF), 22.1 W (without VF)
- **Approx. 100 min. with BP-L60A**: 24.8 W (with VF), 22.1 W (without VF)
- **Approx. 180 min. with BP-L60A**: 24.8 W (with VF), 22.1 W (without VF)
- **Approx. 290 min. with BP-L90A**: 24.8 W (with VF), 22.1 W (without VF)

**Dimensions (WxHxD)**

- **DSR-130**: 272 x 247 x 534 mm (9 5/8 x 9 3/4 x 21 1/8 inches) (including VF, microphone, lens, battery and tape)
- **DSR-300**: 272 x 247 x 534 mm (9 5/8 x 9 3/4 x 21 1/8 inches) (including VF, microphone, lens, battery and tape)

**Lens mount**

- **Sony 2/3-inch Bayonet mount**

**Built-in filters**

- **1: 3200 K**  2: 5600 K+1/8ND  1: 3200 K/3000 K (Switchable)  2: 5600 K+1/8ND

**Image device**

- **3-chip 2/3-inch, Interline Transfer CCD**

**Effective picture elements**

- **768 (H) x 494 (V)**

**Optics**

- **F1.4 medium index prism system**

**Dynamic range**

- **More than 80 dB**

**S/N ratio**

- **More than 55 dB**

**Audio performance**

- **Dynamic range**: More than 55 dB

**Supplied Accessories**

- **Operation Manual**: (x1),  ClipLink Guide (x1), Shoulder Strap (x1), RM-LG1 Remote Control Unit (x1), Handle (x1), Flange Focal Length Adjustment Test Chart (x1), Switch Guard (x1), Operation Manual (x1), ClipLink Guide (x1)
<table>
<thead>
<tr>
<th>DSR-200A</th>
<th>DSR-PD100</th>
<th>DSR-PD1</th>
</tr>
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<tbody>
<tr>
<td>One-piece Camcorder</td>
<td>Handycam-style Camcorder</td>
<td>Compact Camcorder</td>
</tr>
</tbody>
</table>

- **DC 7.2 V (Battery operation), DC 8.4 V (AC adaptor)**
- **11.6 W (during camera recording)**
- **4.3 W (with VF), 5.3 W (with LCD)**
- **20˚C to 60˚C (-4˚F to 140˚F)**
- **28.193 mm/s**
- **Approx. 70 min. (LCD off) / 55 min. (LCD on) with NP-F330**
- **Approx. 75 min. with NP-F200/B (fully charged) (LCD on)**
- **Approx. 360 min. with PDV-184ME/184N**
- **40 min. with PDV-40ME/40N**

**Specifications:**
- **Power Supply:** DC 7.2 V (Battery operation), DC 8.4 V (AC adaptor)
- **Operating Voltage:** 11.6 W (during camera recording), 4.3 W (with VF), 5.3 W (with LCD)
- **Temperature:** 20˚C to 60˚C (-4˚F to 140˚F)
- **Operating Speed:** 28.193 mm/s
- **Battery Life:** Approx. 70 min. (LCD off) / 55 min. (LCD on) with NP-F330
- **Additional Battery:** Approx. 75 min. with NP-F200/B (fully charged) (LCD on)
- **Recording Time:** Approx. 360 min. with PDV-184ME/184N
- **Dimensions:** 216 x 237 x 474 mm (8 5/8 x 9 3/8 x 18 3/4 inches)
- **Weight:**
  - Approx. 3.6 kg (7 lb 15 oz) (without tape and batteries)
  - Approx. 4.7 kg (10 lb 8 oz) (with tape and PDV-184ME/184N)
  - Approx. 4.7 kg (10 lb 8 oz) (with VF and LCD)
  - Approx. 5.3 kg (11 lb 8 oz) (with LCD)
  - Approx. 6 kg (13 lb 1 oz) (with LCD on)
- **Storage Temperature:** 0˚C to 40˚C (32˚F to 104˚F)
- **Operating Temperature:** -20˚C to 60˚C (-4˚F to 140˚F)

**Video Format:**
- NTSC color system
- 2:1 interlaced, 525 lines, 60 fields/s
- 3-chip 1/3-inch, Interline Transfer Sensor
- 3-chip 1/4-inch color CCD, 380,000 pixels, Progressive/Interlace Scan

**Audio Input:**
- XLR 3-pin x2 (MIC/LINE selectable)
- Stereo mini jack x1
- Stereo mini jack (using optional VC-LM7)
- Audio Out: STEREO MINI jack (L/R)

**Audio Output:**
- Phono jack (L&R x1)
- i.LINK (DV IN/OUT): IEEE1394-based, 4-pin
- Audio Out: Special AV mini (to convert RCA pin)
- Audio Out: Special AV mini stereo

**Video Out:**
- Composite: BNC x1, Pin jack x1, 1.0 Vp-p, sync negative, 75Ω, S-Video: Mini DIN 4-pin
- Y: 1.0 Vp-p, 75Ω, unbalanced
- C: 0.266 Vp-p (sub carrier burst), 75Ω, unbalanced
- Audio Out: Phono jack (L&R x1)

**LANC:**
- Standard jack (using optional VC-LM7)
- Headphone: Stereo mini jack
- Microphone: Stereo mini jack (XLR 3-pin x1 via adaptor)
- External DC In: 8.4 V (AC-L10 AC Adapter)

**Accessories:**
- RMT-806 Wireless Remote Controller (x1), AV Stereo Cable (x1), R6 Batteries (x2), Carrier Belt (x1)
- RMT-811 Wireless Remote Commander (x1), Wide Conversion Lens (x1), Lens Hood (x1), Lens Cap (x1), AC-L10 AC Adapter (x1), NP-F330 InfoLITHIUM Rechargeable Battery Pack (x1), MSAC-P11 Memory Stick/PC Card Adaptor (x1), MSA-44 Memory Stick (x1), MSA-44 Memory Stick Adaptor (x1), XLR-10 Adaptor (x1), Special Stereo AV Cable (x1), Carrying Belt (x1)

**Note:** Picture quality by analog input is not satisfying for professional use.
Specifications

DSR-1 Dockable Recorder

General
- Power requirements: DC 12 V, +5/-1 V
- Power consumption: 12 W (10 W in recording mode with the DMC-D30)
- Operating temperature: 0°C to 40°C (32°F to 104°F)
- Storage temperature: -20°C to 60°C (-4°F to 140°F)
- Tape speed: 28.193 mm/s
- Recording/Playback time: Standard size: Approx. 12 min. with PDV-184ME/184N
- Fast forward/Rewind time: Approx. 12 min. with PDV-184ME/184N
- Continuous recording time: Approx. 60 min. with NP-1B Battery (DSR-1+DNC-D30)
- Mass: 2.85 kg (6 lb 4 oz) (including battery)
- Dimensions: 118 x 185 x 210 mm (4 3/4 x 7 3/8 x 83/8 inches)
- Video Performance*4
  - Y/C delay: Less than 30 nsec.
  - K-factor (K2T, KPB): Less than 2.0 %
- Audio Performance*4
  - Distortion (THD+N): Less than 0.08 %
  - Dynamic range: More than 80 dB
  - Frequency response: 2CH mode (48 kHz/16-bit): 20 Hz to 20 kHz, +0.5/-1.0 dB
  - Video Performance*4
  - Bandwidth: Luminance: 30 Hz to 5.0 MHz ±1.0 dB
  - Chrominance: 30 Hz to 1.5 MHz ±1.0 dB
- S/N ratio: More than 55 dB
- Input/Output Connectors
  - Signal inputs: Genlock Video In: BNC, 1.0 Vp-p, 75 Ω
  - Audio In: Ch In-102: AES/EBU
  - Video Signal Inputs: Composite, BNC x1, Pin jack x1, 1.0 Vp-p, 75 Ω
- Audio Signal Outputs
  - Stereo Mini-jack x1
  - PHONO: Female (stereo), 2 Vrms (full bit)
  - DC Out: 6-pin x1, IEEE1394-based

DSR-20/DSR-30/DSR-60/DSR-80/DSR-85

DSR-20 Recorder
- Power requirements: AC 120 V, 50/60 Hz; DC, 12 V
- Power consumption: 28 W
- Operating temperature: 5°C to 40°C (41°F to 104°F)
- Storage temperature: -20°C to 60°C (-4°F to 140°F)
- Mass: Approx. 5.0 kg (11 lb)
- Dimensions (WxHxD): 215 x 98 x 392 mm (8 1/2 x 3 7/8 x 15 1/2 inches)
- Video Performance
  - Bandwidth (via analog component I/O): Luminance: Chrominance:
- Audio Performance
  - Frequency response:
  - Dynamic range:
  - Distortion (THD+N):
- Video Signal Inputs
  - Analog: Ref. Video
  - Digital: SDI
- Audio Signal Inputs
  - Analog: Audio
  - Digital: AES/EBU

DSR-30 Recorder
- Power requirements: AC 120 V, 50/60 Hz; DC, 12 V
- Power consumption: 40 W
- Operating temperature: 5°C to 40°C (41°F to 104°F)
- Storage temperature: -20°C to 60°C (-4°F to 140°F)
- Mass: Approx. 9.2 kg (20 lb 4 oz)
- Dimensions (WxHxD): 430 x 129 x 374 mm (17 1/2 x 5 1/8 x 14 3/4 inches)
- Video Performance
  - Bandwidth: Luminance: Chrominance:
- Audio Performance
  - Frequency response:
  - Dynamic range:
  - Distortion (THD+N):
- Video Signal Inputs
  - Analog: Audio
  - Digital: AES/EBU

DSR-60/DSR-80/DSR-85
- Power requirements: AC 28 W; DC, 2.0 A (4.0 A PEAK)
- Power consumption: 32 W
- Operating temperature: 5°C to 40°C (41°F to 104°F)
- Storage temperature: -20°C to 60°C (-4°F to 140°F)
- Mass: Approx. 9.2 kg (20 lb 4 oz)
- Dimensions (WxHxD): 430 x 129 x 374 mm (17 1/2 x 5 1/8 x 14 3/4 inches)
- Video Performance
  - Bandwidth: Luminance: Chrominance:
- Audio Performance
  - Frequency response:
  - Dynamic range:
  - Distortion (THD+N):
- Video Signal Inputs
  - Analog: Audio
  - Digital: AES/EBU

* The specifications of "Video/Audio performance" of the DSR-1 were measured by playing back material on the DSR-85 (via analog component out) that had been recorded on the DSR-1.
### Studio VTRs

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<th>DSR-80 Editing Recorder</th>
<th>DSR-85 High-speed Editing Recorder</th>
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</thead>
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<td><strong>Power</strong></td>
<td>85 W</td>
<td>140 W</td>
</tr>
<tr>
<td><strong>Dimension</strong></td>
<td>427 x 174 x 494 mm (16 7/8 x 6 7/8 x 19 1/2 inches) (excluding external projections)</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>18 kg (39 lb 10 oz)</td>
<td>21 kg (46 lb 4 oz)</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>5°C to 40°C (41°F to 104°F), -20°C to 60°C (4°F to 140°F)</td>
<td></td>
</tr>
<tr>
<td><strong>Temperature Range</strong></td>
<td>-20°C to 60°C (-4°F to 140°F)</td>
<td></td>
</tr>
</tbody>
</table>

#### Specifications

- **When controlling via RS-422A:**
  - Jog mode: Frame by frame to x2, forward and reverse
  - Digital slow mode: 3 steps, still x1/5 and x1/10 normal speed, forward and reverse
  - Jog audio mode: x1/30 to x1, forward and reverse

- **When controlling via DSRM-10:**
  - Jog mode: Frame by frame to x2, forward and reverse
  - Shuttle mode: 8 steps, still to x16 normal speed, forward and reverse
  - Digital slow mode: 3 steps, still, x1/5 and x1/10 normal speed, forward and reverse
  - Jog audio mode: x1/30 to x1, forward and reverse

- **Audio Monitor:**
  - RCA phono jack x1, -6 dBu, 47 kΩ, unbalanced
  - XLR 3-pin female x2, 2 to 7 Vp-p, 110 Ω, balanced

- **Headphones:**
  - JM-60 headphone jack x1, -16 dBu, 8 Ω, unbalanced

- **Power Cord:**
  - AC Power Cord (x1), DDC-5G Remote Control Cable (x1), Operation Manual (x1), ClipLink Guide (x1)

### DSR-60 Editing Player

- **Power:** 85 W
- **Dimension:** 427 x 174 x 494 mm (16 7/8 x 6 7/8 x 19 1/2 inches) (excluding external projections)
- **Weight:** 18 kg (39 lb 10 oz)

### DSR-80 Editing Recorder

- **Power:** 140 W
- **Dimension:** 427 x 174 x 494 mm (16 7/8 x 6 7/8 x 19 1/2 inches) (excluding external projections)
- **Weight:** 21 kg (46 lb 4 oz)

### DSR-85 High-speed Editing Recorder

- **Power:** 185 W
- **Dimension:** 427 x 174 x 494 mm (16 7/8 x 6 7/8 x 19 1/2 inches) (excluding external projections)
- **Weight:** 21 kg (46 lb 4 oz)
Specifications

**DSR-70** Portable Editing Recorder

**DSR-V10** DVCAM Video Walkman Recorder

**DSRM-E1** (Edit Adaptor for DSR-V10)

**CVX-V1/CVX-V3** (Color Video Camera for DSR-V10)

---

**General**

**Power requirements**
DC: 12 V

**Power consumption**
46 W (without options)

**Operating temperature**
0 °C to 40 °C (32 °F to 104 °F)

**Storage temperature**
-20 °C to 60 °C (-4 °F to 140 °F)

**Mass**
5.8 kg (12 lb 12 oz)

**Dimensions (WxHxD)**
211 x 149 x 443 mm (8 3/8 x 5 7/8 x 17 1/2 inches)

**Tape speed**
28.19 mm/s

**Recording/Playback time**
Standard size: More than 184 min. with PDV-184ME/184N
Minisize: More than 4 min. with PDVM-40ME/40N

**Search speed**
x32, forward and reverse

**Video Signal Inputs**

**Analog**

**Ref. Video**
BNC x2, loop-through connection, Composite, 1.0 Vp-p, 75 Ω, sync negative

**Video**
BNC x2, loop-through connection, Composite, 1.0 Vp-p, 75 Ω, sync negative

**Component**
BNC x3, Y: 1.0 Vp-p, 75 Ω, sync negative
B-Y: 0.7 Vp-p, 75 Ω, Y: 1.0 Vp-p, 75 Ω, sync negative

**S-Video**
Y: 1.0 Vp-p, 75 Ω, shift L/R, C: 0.286 Vp-p, 75 Ω (at burst level)

**Digital**

**SDI**
BNC x1, Conforms to Serial Digital Interface (270 Mbps), SMPTE 295M

**SDTI(QSDI)**
BNC x1, Conforms to SDTI (270 Mbps), SMPTE 305M

**i.LINK (DV In/Out)**
6-pin x1, IEEE1394-based

**Audio Signal Inputs**

**Audio (CH-1, 2)**
XLR 3-pin female x2

---

**Audio signals**

**Recording**
48 kHz/16-bit, 32 kHz/12-bit

**Playback**
48 kHz/16-bit, 32 kHz/15-bit, 44.1 kHz/16-bit

**Audio input/output**
Phono jack (Stereo L/R) x1, RCA x2, 0.327 V, impedance 470 Ω

---

**Supplied Accessories**

**Carrying Belt (x1)**
Connector Cap (x1 / per interface)

**Audio**

**Audio (CH-1, 2 or CH-3, 4)**
XLR 3-pin male x2

**Time Code**

**Time code In**
BNC x1

**Time code Out**
BNC x1

**Speaker**
Built-in speaker: Monaural

**Remote**

**Monaural**
9-pin multi connector x1

---

**Supplied Accessories**

**Carrying Belt (x1)**

**Others**

**DC In**
XLR 4-pin x1, DC 12 V

Audio monitor (R/L): RCA phono jack x1

-7.5 dB (0 dBu=0.775 Vrms)

* Using optional DSBK-140 i.LINK/DV Input/Output Board
* Using optional DSBK-160 SDI Input/Output Board
* Using optional DSBK-170 Analog Component Input/Output Board

---

**Audio**

**Audio (CH-1, 2 or CH-3, 4)**
XLR 3-pin female x2

**Audio signals**

**Recording**
48 kHz/16-bit, 32 kHz/12-bit

**Playback**
48 kHz/16-bit, 32 kHz/15-bit, 44.1 kHz/16-bit

**Audio input/output**
Phono jack (Stereo L/R) x1, RCA x2, 0.327 V, impedance 470 Ω

**Others**

**i.LINK (DV In/Out)**
4-pin, IEEE1394-based

**Camera/Editor connector**
20-pin

**Audio Monitor (R/L)**
RCA phono jack x1

**PAN**

**AC-V600 AC Adaptor/Charger (x1)**

**DK-415 DK Cable (x1)**

**Carrying Belt (x1)**

**Operation Manual (x1)**

---

**DSRM-E1** (Edit Adaptor for DSR-V10)

**General**

**Power requirements**
DC: 7.2 V (supplied from the DSR-V10)
DC: 8.4 V (AC adaptor operation)

**Power consumption**
Approx. 1.8 W

**Operating temperature**
0 °C to 40 °C (32 °F to 104 °F)

**Storage temperature**
-20 °C to 60 °C (-4 °F to 140 °F)

**Mass**
Main unit: 160 g (5.6 oz)
Controller: 340 g (12 oz)

---

**Camera**

**Image device**
1/4-inch Interline Transfer CCD

**Picture elements**
Total: 410 k
Effective: 380 k

**Lens**
CVX-V1: f=3.9 mm, F1.8 (35 mm conversion: 38 mm)
CVX-V1: f=3.5 to 10.5 mm, F2.8 to 4

**Minimum illumination**
CVX-V1: 0.01 lx, CVX-V3: 0.001 lx (at burst level)

**Gain selection**

**White balance**
CVX-V1: Auto/Manual
CVX-V3: Auto

**Power output**
Phono jack (Stereo L/R) x1, 0.327 V, impedance 470 Ω or less

**Battery**

**Battery connector**

**Supplied Accessories**

**Video Walkman Attachment Unit (x1)**

**Operation Manual (x1)**

---

**CVX-V1/CVX-V3** (Color Video Camera for DSR-V10)

**General**

**Power requirements**
DC: 7.2 V (Battery operation)
DC: 8.4 V (AC adaptor operation)

**Power consumption**
Approx. 1.8 W

**Operating temperature**
0 °C to 40 °C (32 °F to 104 °F)

**Storage temperature**
-20 °C to 60 °C (-4 °F to 140 °F)

**Mass**
Main unit: 160 g (5.6 oz)
Controller: 340 g (12 oz)

---

**Camera**

**Image device**
1/4-inch Interline Transfer CCD

**Picture elements**
Total: 410 k
Effective: 380 k

**Lens**
CVX-V1: F1.8, CVX-V3: F2.8 to 4

**Focal length**
CVX-V1: f=3.9 mm, F1.8 (35 mm conversion: 38 mm)
CVX-V1: f=3.5 to 10.5 mm, F2.8 to 4

**Minimum illumination**
CVX-V1: 0.01 lx, CVX-V3: 0.001 lx (at burst level)

**Gain selection**

**White balance**
CVX-V1: Auto/Manual
CVX-V3: Auto

**Power output**
Phono jack (Stereo L/R) x1, 0.327 V, impedance 470 Ω or less

**Battery**

**Battery connector**

**Supplied Accessories**

**Video Walkman Attachment Unit (x1)**

**Operation Manual (x1)**
### DRV-1000 DVCAM Drive

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<th>Others</th>
<th>Supplied Accessories</th>
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<td>Power requirements</td>
<td>5 V: 5 A (Max.) / 700 mA (Stop)</td>
<td>Audio signals</td>
<td>DV Cable (4-pin - 4-pin, 50 cm) (x1)</td>
</tr>
<tr>
<td></td>
<td>12 V: 0.8 A (Max.) / 130 mA (loading/unloading)</td>
<td>48 kHz/16-bit, 32 kHz/12-bit,</td>
<td>AV Cable (x1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>32 kHz/16-bit, 44.1 kHz/16-bit (depending on input signals)</td>
<td>S-Video Cable (x1)</td>
</tr>
<tr>
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<td>Mounting Screw (x4)</td>
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<tr>
<td></td>
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<td></td>
<td>Operation Manual (x1)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>5 V: 25 VA (Max.) / 12 V: 9.6 VA (Max.)</td>
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<tr>
<td>Operating temperature</td>
<td>5 °C to 40 °C (41 °F to 104 °F)</td>
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<tr>
<td>Storage temperature</td>
<td>-20 °C to 60 °C (-4 °F to 140 °F)</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Tape speed</td>
<td>28.193 mm/s</td>
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<td></td>
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<td></td>
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<tr>
<td>Mass</td>
<td>Approx. 1.4 kg (3 lb 1 oz)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td>Approx. 149 x 43 x 225 mm (5 7/8 x 1 3/4 x 8 7/8 inches)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Video output</td>
<td>Composite: RCA pin x1, 1.0 Vp-p, 75 Ω, unbalanced, sync negative</td>
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<tr>
<td></td>
<td></td>
<td>S-Video: Mini DIN 4-pin x1, Y: 1.0 Vp-p, 75 Ω, sync negative</td>
<td></td>
</tr>
<tr>
<td>Video signal</td>
<td>EIA standard, NTSC color</td>
<td>i.LINK (DV In/Out): 4-pin, IEEE1394-based</td>
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<tr>
<td></td>
<td></td>
<td>LANC: Stereo mini-mini jack</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Eject: Monaural mini jack, TTL input, low active (more than 100 ms)</td>
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<td>DC In: PC standard, 5 V/12 V/GND</td>
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### Flexicart Multi-cassette System

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<td>Power requirements</td>
<td>AC 100/120/220/230/240 V, 50/60 Hz</td>
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<td>DV Cable (4-pin - 4-pin, 50 cm) (x1)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>600 VA (without VTRs)</td>
<td></td>
<td>AV Cable (x1)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>5 °C to 35 °C (41 °F to 95 °F)</td>
<td></td>
<td>S-Video Cable (x1)</td>
</tr>
<tr>
<td>Mass</td>
<td>250 kg (551 lb 2.5 oz)</td>
<td></td>
<td>Mounting Screw (x4)</td>
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<tr>
<td>Dimensions (WxHxD)</td>
<td>600 x 1980 x 1090 mm (23 5/8 x 78 x 43 inches)</td>
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<td>Operation Manual (x1)</td>
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<tr>
<td>Connections</td>
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<tr>
<td>Remote control interface</td>
<td>REMOTE-1: RS-422A D-sub 9-pin</td>
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<td>REMOTE-2: RS-232C D-sub 25-pin</td>
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<td>Parallel interface</td>
<td>D-sub 50-pin</td>
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<td>BNC, Black burst or Composite video</td>
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<tr>
<td>Supplied Accessories</td>
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<td></td>
<td>Operation Manual (x1)</td>
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<td>Installation Manual (x1)</td>
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