DVCAM Family

For Professional Results
Video production styles continue to diversify in response to the rapid and tremendous growth in visual communication. In this fast-changing environment, the need is for equipment that meets the crucial demands for both higher productivity and greater creativity in professional video production.

Since its launch in 1996, Sony DVCAM® has satisfied these demands and brought many notable benefits. Excellent picture and sound quality that only a digital format can provide, high-performance editing capabilities, and system versatility that makes it possible to migrate smoothly from analog to digital – these are just some of the factors behind the success of DVCAM. A full model line-up for digital acquisition, editing and program playout has led to the rapid acceptance of DVCAM by business users, production facilities and broadcasters around the world.

Many new models have been added to the DSR Series of DVCAM equipment, broadening the range of applications in ENG, field acquisition/editing, simple editing and so on.

Select from the Sony DVCAM lineup and you will be choosing innovative equipment to bring both new solutions to your production demands and added performance benefits to your system.
Main Features

The DVCAM Format

Digital Component Recording for Excellent Picture Quality
The DVCAM format is 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. The DVCAM format has a wider track pitch of 15 µm (compared with 10 µm for the DV format) which gives higher reliability for professional editing. It also offers superior digital audio performance, providing a wide dynamic range and excellent signal-to-noise ratio, 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.

Excellent Performance from Professional DVCAM Tapes
To gain maximum performance from high-density digital recording, advanced Metal Evaporated tape technology has been developed for the DVCAM format. The use of Sony's pure cobalt advanced evaporated coating gives both high output and a high C/N (Carrier-to-Noise) ratio, resulting in superb quality pictures and a low error rate. A DLC (Diamond Like Carbon) protective layer provides the enhanced protection of the tape surface that is essential to avoiding tape damage during long editing sessions. Finally, DVCAM tapes provide a low frequency of dropout and superior thermal stability. A variety of cassettes, including tapes with IC Cassette Memory and Master Tapes, is available to suit different applications. The built-in 16-kbit Cassette Memory stores ClipLink™ Log Data, Index Pictures, Photo mode and other shooting data, enhancing editing efficiency. Tapes without IC Cassette Memory fit a wide range of applications, with affordable price. The Master Tapes, which use Sony Hyper Evaticle II Magnetic Particle technology to provide higher output and lower noise, are suitable for high-speed data transfer applications as well as for making master recordings.

Recording Capability of Up to Three Hours
DVCAM cassette tapes are available in two sizes: standard and mini. The standard-size cassette provides a recording time of up to 184 minutes, while the mini-size cassette provides up to 40 minutes. These long recording times are achieved in very compact cassettes with a 1/4-inch (6.35 mm) tape width.
Main Features

Unique Technology and Advantages

True Digital Camcorders

Sony DVCAM camcorders are "True Digital Camcorders." They incorporate DSP (Digital Signal Processing) for full digital processing in the camera section and digital recording in the VTR section. The camera video signal remains in its digital component format through the recording process, resulting in outstanding image quality, free of artifacts and with none of the resolution loss typical of A/D and D/A conversion.

Playback Capability of DV (25 Mb/s) Format Recorded Tapes

For maximum versatility in playback, the DVCAM VTRs are designed to playback DVCAM and DV (SP mode) tapes without a mechanical adapter or menu adjustment. The DVCAM Master Series VTRs (DSR-2000/1800/1600/1500A/70A) support DVCPRO tape playback*, and the DSR-2000 even supports DV (LP mode) playback. Furthermore, it is possible to use these tapes directly as editing source material, improving productivity.

* Not compatible with SDTI (QSDI) and i.LINK (DV) interfaces.

Recording Capability of the consumer DV (25 Mb/s) Format

DSR-2000 DSR-1800 DSR-1600 DSR-1500A DSR-70A
DSR-235* DSR-PD100* DSR-PD100* DSR-520* DSR-45*

In the event a longer recording time is required, the above DVCAM camcorder and VTRs are also designed to record in the DV Format. Thanks to this feature, recording of up to 276 minutes is possible with a standard-size cassette and 60 minutes with a mini-size cassette.

* 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. Not available for editing.

Audio Cross-fade Capability

Preread heads also provide an audio cross-fade capability with clean audio transitions at editing points. During audio insert editing, the previously recorded audio signal is read out by preread heads, cross-faded with the VTR audio input signal and recorded back onto the same track. This provides excellent audio cross-fade editing performance without audio clicks at edit points and provides high quality audio to complement the video performance.

Excellent Editing Performance

• Preread Editing Capability*

The DSR-2000 VTR offers preread editing, a function never before available on a 1/4-inch (6.35 mm) VTR. Preread heads are positioned ahead of the record heads on the drum to scan previously recorded video and audio signals. These signals can then be sent to a character generator, a video switcher and/or an audio mixer, combined with signals from another source, and then recorded back onto the same tracks.

Preread editing provides many advantages since it enables single-VTR titling, audio mix/swap and voice over with no delay between video and audio. In addition, A/B roll editing with two VTRs is available (MIX and WIPE only).

* Not available for SDTI (QSDI) and i.LINK (DV) interfaces as these handle compressed signals.

• Enhanced Digital Jog Audio

A digital jog audio function is included in the Master Series VTRs with a range of –1 to +1 (DSR-2000) or +0.5 to +0.5 (DSR-1800/1600/1500A/70A) times normal speed. With its quick and smooth response, locating editing points is very easy. This is a particularly important feature for ENG applications that usually require audio-based editing. Moreover, this function is even available on the master series VTRs when using DV and DVCPRO tapes.

• ClipLink Operation

The ClipLink feature is a unique Sony system that conveys shooting data into the digital production process. During acquisition with a camcorder equipped with this feature, the in-point/out-point time code data of each shot and its OK/NG status are recorded in the DVCAM Cassette Memory. At the same time, a still frame of each in-point, called an "Index Picture*, is recorded on the DVCAM tape to provide visual information associated with the time code.

ClipLink data can be imported automatically to JZ-1 videocassette logging software, modified and then be exported to editing devices. This greatly enhances subsequent editing operations.

* The DSR-570WS/390 require an optional board to record Index Pictures.

Note: Unless otherwise noted, all references to specific models refer to both the NTSC and PAL versions. (i.e., DSR-570WS refers to the DSR-570WS and the DSR-570WSP)
Versatile Digital Interfaces

• SDI (Serial Digital Interface)*

With SDI, high-quality picture and sound can be transferred between DV/DVcam VTRs and SDI-equipped devices.

* The SDI used in DVCAM VTRs supports digital component video signals. The DSR-1800/1600/1500A/70A/85 require an optional board for SDI.

• SDTI (QSDI™)**

SDTI (QSDI) is a digital interface that handles compressed video as well as the sub-code data and digital audio signals of the DV/DVcam formats. It allows virtually degradation-free transfer of both video and audio signals between SDTI (QSDI) equipped VTRs.

** The DSR-1800/1600/1500A require an optional board for AES/EBU.

• Dual Interface Mechanism

The above camcorders and VTRs have a dual-size cassette compartment which accepts both standard and mini cassettes without a mechanical adaptor.

• i.LINK™ (DV)*

i.LINK enables a single cable to simultaneously carry digital video and audio signals, as well as data and control signals, with virtually no quality deterioration. This simple connection offers an ideal solution for connecting DVCAM equipment with consumer AV equipment and computer-related products.

* i.LINK stands for IEEE1394-1995 standards and their revisions.

• Three-size Cassette Compartment

The Master Series VTRs incorporate a newly designed three-size cassette compartment to ensure compatibility with DV (25 Mb/s) format recorded tapes of all sizes and types. Thanks to this feature, it is possible to use standard and mini DV and DVCAM cassettes, as well as medium DVCPro cassettes, without a mechanical adaptor.

• Dual-size Cassette Compartment

The DSR-1 Dockable Recorder has both Pro 76-pin Digital and Pro 50-pin connectors with a unique seesaw construction. These allow direct connection of the DSR-1 to several alternative Sony digital (DVC-3D30/D30WS/D35/D35WS) and analog cameras (DXC-327B/D327A/D327A/D327A/D327A/D327A).

• High-speed Data Transfer Capability

The advanced drum mechanism and SDTI (QSDI) interface enable degradation-free data transfer and dubbing at four times normal speed.

• Further operational efficiency by DSR-DU1

The DSR-DU1 is a compact videodisk unit that mounts on or interfaced with above camcorders. It provides up to three hours of DVCAM/DV stream recording as a file. Via an i.LINK (DV) connection, the camera output of the camcorder is recorded to the hard drive of the DSR-DU1 in parallel to the recording made on the camcorder's tape. The DSR-DU1 is an extremely versatile device. When detached from the camcorder, it is very effective for field off-line logging or EDL creation, as a player for making dubs, or as a source feeder machine for i.LINK equipped nonlinear editors. Moreover, when connected to an SBP2 compatible i.LINK equipped nonlinear editor**, the DSR-DU1 allows its DV files to be directly transferred to the media drives of the nonlinear editor.

A maximum transfer speed of two times normal playback speed** is achieved. The Rec. start and stop time codes of each scene are also transferred to the editor, eliminating the logging process common to nonlinear editing.

* Please contact your nearest Sony office or Authorized dealer for nonlinear products that support DV file transfer between the DSR-DU1.

** The time required to transfer DV files from the DSR-DU1 may vary depending on the nonlinear editor used.

* SDTI (Serial Data Transport Interface) is defined as SMPTE 305M.

** SDTI (QSDI) is the DV compressed signal interface defined as SMPTE 322M.

* SDTI-CP is defined as SMPTE 326M.

Note: Sony VAIO computers are checked with Sony DV products, but not with DVCAM, concerning the i.LINK interconnection. Some VAIO application software may not work with DVCAM.

• AES/EBU

The DSR-2000/1800/1600/1500A/85 VTRs and DSR-DR1000 are fitted with digital audio interfaces conforming to the AES/EBU standard. With a sampling frequency of 48 kHz and 20-bit quantization, these interfaces ensure high-quality audio.

* The DSR-1800/1600/1500A require an optional board for AES/EBU.

Sophisticated Mechanisms

• Quick, Responsive Mechanism

Quick mechanical response is an essential requirement for professional video production. The Master Series VTRs provide this rapid response with a combination of highly reliable direct reel drive and drum motor mechanisms. The result is a tape drive with rapid response to Jog and Shuttle commands when searching for edit points, and a rapid start in Play mode.
Digital Camcorders

One-piece Camcorder Common Features

- Highly mobile one-piece design
- Studio operation capability with a CCU-D50
- Intercom (DR-100) capability with a CA-370
- DSP (Digital Signal Processing)
- TrueEye™ process for faithful color reproduction
- DynaLatitude™ process minimizes video level distortion
- Skin Detail with auto detection of active area
- Black Stretch and Compress control functions
- Superb picture quality of the DVCAM format
- Playback capability of DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette
- Total Level Control System (TLCS) for automatically extended range of Iris control
- Auto Tracing White Balance (ATW) function
- EZ Mode and EZ Focus for quick camera setup
- DynaFit™ shoulder pad for comfortable molding to any shoulder
- Variable color temperature settings: 3200 K (19 steps in the range from 2200 K to 4300 K) or 5600 K (13 steps in the range from 4600 K to 12000 K)
- Video light connector for optional light equipment
- Menu control by Jog Dial operation
- Camera Setup File System

DSR-570WS/DSR-570WSP
One-piece Camcorder

- Compact and lightweight: 6.4 kg (14 lb 20 oz) including viewfinder, microphone, lens, battery and tape
- Low power consumption: 24 W (without viewfinder)
- Three 1/2-inch type Power HAD™ CCDs providing high quality images with low smear level, high sensitivity, high S/N ratio (NTSC: 63 dB, PAL: 61 dB) and high horizontal resolution (800/850 TV lines in 16:9/4:3 mode)
- Hyper Gain (36 dB)
- 4:3 aspect ratio
- SetUpNavi™ function for camera setup file storage
- Camera Setup File System

DSR-390/DSR-390P
One-piece Camcorder

- Compact and lightweight: 6.2 kg (13 lb 10 oz) including viewfinder, microphone, lens, battery and tape
- Low power consumption: 21 W (without viewfinder)
- Three 1/2-inch type Power HAD™ CCDs providing high quality images with low smear level, high sensitivity, high S/N ratio (NTSC: 65 dB, PAL: 62 dB) and high horizontal resolution (800 TV lines)
- Hyper Gain (36 dB)
- 4:3 aspect ratio
- SetUpNavi™ function for camera setup file storage
- Camera Setup File System

Pool Feed operation*1
i.LINK (DV output only) interface for DVCAM/DV back up on an external VTR or on a DSR-DU1 video disk unit with a CA-DU1
Multi-core Studio CCU capable with CCU-D50
Full color picture playback without an external adaptor
Edit Search function
Time code superimposed on viewfinder during playback and record
Freeze Mix function
ClipLink operation*2
Compact and lightweight BP-L40A/L90A/IL75 Lithium-ion Batteries or BP-M50/M100 Nickel Metal Hydride Batteries
CA-WR855 Camera Adaptor for the WRR-855A/855B Wireless Receiver
Compact crew package with the LC-400 Soft Carrying Case or LC-424 Hard Carrying Case
DSR-DU1 Rec Trigger control function through i.LINK interface with three modes (Parallel/Int/Ext)

*1 The optional DSBK-501 Analog Composite Input Board is required.
*2 The optional DSBK-301A Index Picture Board is required.
**DXC-D35/D35WS/DXC-D35P/D35WSP+DSR-1/DSR-1P**

Two-piece Camcorder

- Combination of the DXC-D35/D35WS Digital Video Camera and the DSR-1 Dockable Recorder, equivalent to a one-piece camcorder
- Compact and lightweight: 6.3 kg (13 lb 14 oz)*1/6.4 kg (14 lb 2 oz)*2 including viewfinder, battery, joint plate and carrying handle
- Three 2/3-inch type Power HAD CCDs*1/Three 2/3-inch type Power HAD WS CCDs*2 for low smear level, high sensitivity and high S/N ratio (NTSC: 63 dB, PAL: 61dB), and high horizontal resolution (880 TV lines*/850 TV lines (4:3 mode)*, 800 TV lines (16:9 mode)*)
- Hyper Gain (36 dB or 42 dB selectable)
- DSP (Digital Signal Processing)
- TruEye process for faithful color reproduction
- DynaLatitude process minimizes video level distortion

**DSR-1/DSR-1P**

Dockable Recorder

- Compact and lightweight: 3.1 kg (6 lb 13 oz) including battery
- Ideal operation as a digital camcorder by docking with the DXC-D35/D35WS/D35P/D35WSP Digital Video Camera
- Dual-size cassette mechanism: both standard- and mini-size cassettes accepted
- Dual interface mechanism: Pro 76-pin Digital and Pro 50-pin interfaces for direct connection with both Sony digital and analog cameras
- Superb picture quality of the DVCAM format
- Playback capability of DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette
- ClipLink operation
- Full color picture playback capability without a playback adaptor
- Record review function
- Frame accurate back-space editing

- Skin Detail with auto detection of active area
- Black Stretch and Compress control functions
- Variable color temperature settings: 3200 K (19 steps in the range from 2200 K to 4300 K) or 5600 K (13 steps in the range from 4600 K to 12000 K)
- Black halo-free
- Superb picture quality of the DVCAM format
- Playback capability of DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette
- Total Level Control System (TLCS) for automatically extended range of Iris control
- Auto Tracing White Balance (ATW) function
- EZ Mode and EZ Focus for quick camera setup
- Camera Setup File System
- SetUpNavi function for Camera Setup File Storage
- SetUpLog function for automatic recording of camera setting data
- Edit Search function
- Time code superimposed during playback and record
- Freeze Mix function
- ClipLink operation
- 16:9 and 4:3 switchable*2

*1 Combination of the DXC-D35/D35P+DSR-1/1P
*2 Combination of the DXC-D35WS/D35WSP+DSR-1/1P
*3 DXC-D35s/D35P
*4 DSR-1/DSR-1P
Digital Camcorders

DSR-250/DSR-250P
One-piece Camcorder

- Compact and lightweight: 4.4 kg (9 lb 11 oz)
- Newly developed 1/3-inch type three CCDs for accurate color reproduction
- Capable of both interlace scan, for moving images, and progressive scan, for still images or shooting a moving subject*1 and exporting a frame of the image as a still picture
- DSP (Digital Signal Processing)
- 2.5-inch type (200,000 dot) color LCD monitor
- 12x lens*2 with Super SteadyShot™ system
- New, high-resolution 1.5-inch black & white viewfinder
- 16:9 recording mode available (electronically processed)
- Superb picture quality of the DVCAM format
- Recording and playback capability with standard and mini-size DVCAM and DV tapes (SP mode only)*3
- Three XLR audio input connectors for professional microphones (one at front, two at rear)
- Audio dubbing capability (48 kHz/16-bit or 32 kHz/12-bit selectable)
- Long recording time: 184 minutes with a standard-size cassette in DVCAM mode, or 270 minutes in DV SP mode
- Time/date data superimposition on output pictures
- Digital still camera functions with Memory Stick™
- Light output (DC 12 V, max. 30 W) and additional DC 12 V out for optional accessories
- Time code preset capability
- i.LINK (DV) interface providing a single cable connection to simultaneously transfer audio, video and command signals
- LANC interface for simple editing with a LANC-equipped recorder or editing system
- Supplied RMT-811 Remote Commander

*1 When recording moving images in progressive scan mode, the motion will display some jitter since the picture is read/output every 1/15 second (NTSC) or 1/12.5 second (PAL).

*2 Digital zoom of 24x or 48x available via menu selection.

*3 When recording in DV (SP) format, transitions between cut to cut may not be smooth. In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly.

DSR-PD150/DSR-PD150P
Compact Camcorder

- Compact and lightweight: 1.6 kg (3 lb 8 oz)
- Newly developed 1/3-inch type three CCDs for accurate color reproduction
- Capable of both interlace scan, for moving images, and progressive scan, for still images or shooting a moving subject*1 and exporting a frame of the image as a still picture
- DSP (Digital Signal Processing)
- 2.5-inch type (200,000 dot) color LCD monitor
- 12x lens*2 with Super SteadyShot™ system
- Manual control and a full range of auto modes
- 16:9 recording mode available (electronically processed)
- Superb picture quality of the DVCAM format
- Recording and Playback capability with mini-size DVCAM and DV tapes (SP mode only)*3
- Long recording time: 40 minutes with a mini-cassette in DVCAM mode, or 60 minutes in DV SP mode
- Time/date data superimposition on output pictures
- Digital still camera functions with Memory Stick™
- InfoLITHIUM™ battery system displays the remaining capacity of the battery (accurate to the minute)
- Audio dubbing capability (48 kHz/16-bit or 32 kHz/12-bit selectable)
- i.LINK (DV) interface providing a single cable connection to simultaneously transfer audio, video and command signals
- LANC interface for simple editing with a LANC-equipped recorder or editing system
- Two XLR audio input connectors for professional microphones
- Supplied RMT-811 Wireless Remote Commander

*1 When recording moving images in progressive scan mode, the motion will display some jitter since the picture is read/output every 1/15 second (NTSC) or 1/12.5 second (PAL).

*2 Digital zoom of 24x or 48x available via menu selection.

*3 When recording in DV (SP) format, transitions between cut to cut may not be smooth. In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly.
**Lineup Features**

**DSR-PDX10/PDX10P**  
Handycam®-style Camcorder

- Compact and lightweight: 1050 g (2 lb 5 oz) with a battery and tape.
- Newly developed mega pixel 1/4.7-inch type 3-CCD camera system
- Switchable 4:3 and 16:9 image acquisition and recording modes (native 16:9 extraction)
- Precision 16:9 technology and wider angle of view in 16:9 mode
- 14x optical zoom/24x/48x precision digital zoom
- Manual adjustment: Audio levels, Exposure, Shutter speed, White balance
- Program AE (effects): Audio levels, Exposure, shutter, sunset & moon, landscape
- Fader
- Zebra patterns (100% or 70%)
- Guide frame
- Index marking
- Date stamp (on to camera recording picture)
- Recording/Playback of DVCAM/DV (SP mode) formats
- Various interfaces: i.LINK, (DV) interface, analog audio and video In/Out (AV-mini, S-Video), USB (Mini-B), headphone (Stereo-mini), remote (LANC)
- XLR 2-ch audio adaptor for professional microphones

**DSR-DU1**  
Video Disk Unit

- REC Trigger controlled from the REC On/Off button of Sony i.LINK(DV) equipped camcorders
- Supplied remote controller for Rec, Cue and Rec Tally controls
- Flexible DC operation (DC 12 V*, DC 8.4 V)
- Shooting Data (Time codes of the rec in and out points, Cue points from the DSR-DU1 and the supplied remote controller)

*1 Please contact your nearest Sony office or Authorized dealer for compatible DVCAM camcorders
*2 DSR-570WS/570WSP/390/390P/500WS/500WSP/300A/300AP/250/250P
*3 Please contact your nearest Sony office or Authorized dealer for non-linear products that support DV file transfer between the DSR-DU1
*4 Signal conversion from 525(NTSC) to 625(PAL), or vice versa is not possible
*5 To use this function with camcorders other than the DSR-570WS/570WSP/390/390P, tape should be set in the cassette compartment.
*6 To use the AC 12V, the optional CA-DU1 is required.

**Hard Disk Recorder**

- USB port with streaming function
- 180,000-dot precision black-and-white LCD viewfinder
- 3.5-inch*2 type 246,400-dot precision color LCD monitor
- LCD Touch panel operation for adjusting frequently used camera functions
- InfoLITHIUMM series battery system
- Still-picture recording (Progressive shutter system)
- MPEG movie recording. Direct or from the DV/DVCAM tape
- Digital program editing allows auto-assembly-like editing without an edit controller.
- TC/User bit preset capability
- Audio dubbing (only for DVCAM recorded tape)
- Color bar (BARS)
- Hour meter indicator

*1 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.
*2 Viewable area measured diagonally.
*3 Frame accuracy is not guaranteed.
Master Series VTR Common Features

Since its introduction, the DVCAM format has become widely accepted in the world of video production – from industrial to broadcast markets. Recognizing the increasing demands for DV-based production in broadcast applications, Sony introduced the DSR-2000 in 1999, complete with compatibility with all DV family formats and professional features, such as excellent editing performance and high-quality jog audio, inherited from analog formats. Building on the advanced technologies of the DVCAM format and professional features of the flagship DSR-2000, Sony now presents the entire lineup of Master Series VTRs, our top-of-the-line DVCAM videocassette recorders and players. The Master Series VTRs (DSR-2000, DSR-1800, DSR-1600, DSR-1500A and DSR-70A) now bring the features and benefits introduced with the DSR-2000 to a wider market, from industrial to broadcast for a wider range of applications and requirements.

**Digital VTRs**

- Superb picture quality of the DVCAM format
- Playback capability of DV (25 Mb/s) recorded tapes including DV tapes recorded in SP mode and DVCPRO tapes**††** without an adaptor or menu setting changes
- Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette
- Four-channel audio editing capability**††**
- Audio cross-fade function for clean audio transitions at editing points**†††**
- Excellent jog audio capability
- DMC (Dynamic Motion Control) provides noiseless slow-motion playback**†**
- High-speed picture search over a range of 60 times**††** normal speed, in both forward and reverse
- Versatile digital interfaces**: SDI, SDTI (QSDI), i.LINK (DV) and AES/EBU digital audio
- Extensive analog interfaces: composite, component, S-Video and XLR audio
- RS-422A remote control interface
- Frame accurate editing capability
- ClipLink operation
- Full tape dubbing with ClipLink Log Data via SDTI (QSDI) and RS-422A interfaces

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**DSR-2000/DSR-2000P**

- Playback capability of DV tapes recorded in LP mode
- Preread editing capability**††** to perform sound-on-sound capability, audio mix/swap and over-dubbing of audio with no delay between video and audio as well as A/B roll editing**‡‡** with two VTRs
- VTR-to-VTR editing without external controllers
- Wide range of digital slow speed from –1 to +1 times normal speed
- Optional SDTI-CP digital interface board (MPEG Out)
- Channel condition monitoring function
- Audio level control in both recording and playback modes
- Dial menu operation
- Key Inhibit and Rec Inhibit functions to prevent accidental operation

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**DSBK-200 Control Panel for remote operation from a distance of up to 10 meters (approx. 33 ft.)**

**†** Not available through SDTI (QSDI) and i.LINK interfaces.

**‡** MIX and WIPE only.
LINEUP FEATURES

DSR-1800/DSR-1800P
Editing Recorder

- Preread playback capability to perform audio mix/swap and over dubbing without any delay between video and audio signals
- Wide range of digital slow speed from -0.5 to +0.5 times normal speed
- Channel condition monitoring function
- Jog dial on front panel

DSR-1600/DSR-1600P
Editing Player

- Wide range of digital slow speed from -0.5 to +0.5 times normal speed
- Channel condition monitoring function
- Jog dial on front panel

DSR-1500A/DSR-1500AP
Editing Recorder

- Recording capability with standard and mini-size DV tapes. (SP mode only)*
- Wide range of digital slow speed from -0.5 to +0.5 times normal speed
- Compact, half-rack size
- Menu keys on front panel for picture search
- i.LINK interface as a standard

* Assemble or insert editing is not possible in the consumer DV format mode. However, back space editing is possible using the optional DSRM-10 Remote Control Unit. The transition from cut to cut may not be smooth when performed over a DV recording made on a different DV or DVCAM deck. In between scenes where the recording format is changed from DVCAM to consumer DV format, the transition may not be smooth either. This is a normal and expected phenomenon. The audio reference level is fixed to -12 dB at DV(SP) recording.

DSR-70A/70AP
Portable Editing Recorder

- Compact, all-in-one package features a 6.4-inch type VGA LCD monitor, a full cut-editing controller with a Jog/Shuttle dial and audio speaker
- Wide range of digital slow speeds from -0.5 to +0.5 times normal speed
- High-speed color picture search over a range of 32 times normal speed, in both forward and reverse
- Audio mix/swap recording
- 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
- Edit List Memory Function
- Double Deck Editor by docking two DSR-70A units or a DSR-70A and a DNW-A25 Betacam SX® portable editing recorder
- SDI and i.LINK interfaces are provided by a single DSBK-160A optional board
- Two-camera switching recording*1
- Sequential recording for up to 6 hours in the double deck configuration
- Parallel-run recording to control two docked DSR-70A units in parallel for simultaneous recording
- Two-way power supply system (AC/DC) for operation with either AC*2 or DC power

*1 The optional DSBK-180 Dual Video Input Board is required.
*2 AC adaptor is required.
LINEUP FEATURES

Digital VTRs

DSR-45/DSR-45P

Recorder

- Superb picture quality of the DVCAM format
- Recording and playback capability of the DV format (SP mode only)*1
- Long recording time: up to 184 minutes with a standard-size cassette, 40 minutes with a mini-size cassette in DVCAM mode
- Full range of analog Video IN/OUT: Component, Composite, S-Video
- Four channel independent Audio IN/OUT with XLR connectors for Audio OUT
- i.LINK(DV) interface for simultaneous transfer of audio, video, and command signals
- RS-422A remote control interface*2
- RS-232C interface for basic control from a PC
- LANC and Control S interface
- Time code IN/OUT
- Time code/ User bit preset
- Time code IN through DV IN
- Duplication function (Including the duplication of Cassette Memory data)

- Compact size (half-rack size width, 2U height)
- Low power consumption (22W during playback)
- Built-in 2-inch type (123,200 dot) color LCD monitor
- Tape counter
- Wireless remote controller RMT-DSS supplied
*1 When recording in DV (SP) format, the transition between cut to cut may not be smooth. In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly.
*2 The DSR-45/45P is not equipped with the synchronization capability, therefore is recommended to be used only as a source feeder in AB roll editing.

DSR-30/DSR-30P

Recorder

- Superb picture quality of the DVCAM format
- Playback capability of the DV format (SP mode only)
- Long recording time: up to 184 minutes with a standard-size cassette, 40 minutes with a mini-size cassette in DVCAM mode

- i.LINK(DV) interface for simultaneous transfer of audio, video, and command signals
- LANC remote control interface
- Auto repeat / One program play function
- Duplication function with original time code
- Power-on recording and playback capabilities
- Clear frame picture
- External timer recording
- Index point search function (when using a cassette with Cassette Memory.)
- Built-in control tray with a Jog/Shuttle dial
- Headphone/microphone input
- Wireless remote controller RMT-DS30 supplied
DSR-25
Recorder

- Superb picture quality of the DVCAM format
- Recording and playback capability of the DV format (SP mode only)*1
- Long recording time: up to 184 minutes with a standard-size cassette, 40 minutes with a mini-size cassette in DVCAM mode
- Recording and playback capability of both NTSC/PAL signals*2
- i.LINK(DV) interface for simultaneous transfer of audio, video, and command signals
- LANC and Control S interface
- Time code/ User bit preset
- Time code IN through DV IN
- Duplication function. (Including the duplication of Cassette Memory data)
- Power-on recording and playback capabilities
- Compact size (half-rack size width, 2U height)

- Low power consumption (16W during playback)
- Built-in 2-inch type (123,200 dot) color LCD monitor
- Tape counter
- Wireless remote controller RMT-DSS supplied

*1 When recording in DV (SP) format, the transition between cut to cut may not be smooth. In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly.

*2 The DSR-25 is not equipped to convert signals from NTSC to PAL, or vice versa.

DSR-11
Recorder

- Superb picture quality of the DVCAM format
- Recording and playback capability of the DV format (SP mode only)*1
- Long recording time: up to 184 minutes with a standard-size cassette, 40 minutes with a mini-size cassette in DVCAM mode
- Recording and playback capability of both NTSC/PAL signals*2
- i.LINK(DV) interface for simultaneous transfer of audio, video, and command signals

- LAN and Control S interface
- Time code IN through DV IN
- Auto repeat function
- Compact/lightweight design for both horizontal and vertical layout
- Wireless remote controller RMT-DS11 supplied

*1 When recording in DV (SP) format, the transition between cut to cut may not be smooth. In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly.

*2 The DSR-11 is not equipped to convert signals from NTSC to PAL, or vice versa.
DSR-50/DSR-50P
Portable Recorder

- Superb picture quality of the DVCAM format
- Recording and playback capability of the DV format (SP mode only)*
- Long recording time: up to 184 minutes with a standard-size cassette, 40 minutes with a mini-size cassette in DVCAM mode.
- Analog component video OUT
- Four channel independent Audio IN/OUT with XLR connectors for Audio OUT
- i.LINK(DV) interface for simultaneous transfer of audio, video, and command signals
- Control S and Remote control(Foot Switch) interface.
- 26-pin camera connector
- Time code IN/OUT
- Time code IN through DV IN
- Duplication function (Including the duplication of Cassette Memory data)
- Compact/lightweight design and compatibility with BP-L series batteries for portable use
- Built-in 2.5-inch type (200,000 dot) color LCD monitor

* When recording in DV (SP) format, the transition between cut to cut may not be smooth. In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly.

DSR-V10/DSR-V10P
DVCAM Video Walkman® Recorder

- Superb picture quality of the DVCAM format
- Playback capability of the DV format (SP mode only)
- Long recording time: up to 40 minutes with a mini-size cassette* in DVCAM mode.
- Compact/lightweight design and compatibility with InfoLITHIUM battery system for portable use
- Built-in 5.5-inch type color LCD monitor
- i.LINK(DV) interface for simultaneous transfer of audio, video, and command signals
- LANC remote control interface
- Auto repeat function
- Duplication function with original time code
- Assemble editing capabilities with the optional DSRM-E1 Edit Adaptor
- Image shooting capabilities with the optional CVX-V1/V3/V18NS Mini Camera

* The DSR-V10/V10P is compatible to only mini-size DVCAM and DV cassettes.
LINEUP FEATURES

DSR-DR1000  
Hard Disk Recorder

- Hard disk recorder with 3.5-inch large-capacity hard drive
- Up to six hours of 25 Mb/s DVCAM/DV video and audio recording
- Compact and lightweight (210 x 130 x 422 mm/ 8 3/8 x 5 1/8 x 16 5/8 inches, 7.5 kg/ 16 lb 10 oz)
- Simultaneous recording and playback capability
- Variable speed playback within a wide range of -2 to +2 times normal speed
- Smooth jog sound capability for easy designation of editing points.
- Clip segment playback for continuous playback of designated video segments
- Continuous loop recording allows recording to continue until stopped by operator
- Interval recording to produce recordings over extended periods
- Pre-alarm recording automatically triggers cache recording to start when an external alarm signal is detected
- VTR-like control panel with Jog/Shuttle dial
- Random access to files
- Synchronous playback via RS-422A
- Versatile interfaces
- i.LINK interface (6-pin) with AV/C and SBP2 protocols
- High-speed file transfer via i.LINK interface using SBP2 protocol
- File transfer of DV video and audio using FTP via Ethernet connection

DSR-85/DSR-85P  
High-speed Editing Recorder

- Superb picture quality of the DVCAM format
- Playback capability of DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette
- Versatile digital interfaces: SDI*, SDTI (QSDI) and AES/EBU digital audio
- Extensive analog interfaces: composite, component, S-Video and XLR audio
- RS-422A remote control interface
- High-speed data transfer at four times normal speed via SDTI (QSDI) interface
- High-speed tape dubbing with ClipLink Log Data at four times normal speed via SDTI (QSDI) and RS-422A interfaces
- ClipLink operation
- Frame accurate editing capability
- Built-in SMPTE/EBU 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 from 0 to 0.24 times normal speed, in both forward and reverse
- Jog audio capability
- SIRCS (Sony Integrated Remote Control System) interface for the DSRM-10 Remote Control Unit

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

Lineup Features

Hard Disk Recorder

DSR-DR1000  
Hard Disk Recorder

- Hard disk recorder with 3.5-inch large-capacity hard drive
- Up to six hours of 25 Mb/s DVCAM/DV video and audio recording
- Compact and lightweight (210 x 130 x 422 mm/ 8 3/8 x 5 1/8 x 16 5/8 inches, 7.5 kg/ 16 lb 10 oz)
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- Variable speed playback within a wide range of -2 to +2 times normal speed
- Smooth jog sound capability for easy designation of editing points.
- Clip segment playback for continuous playback of designated video segments
- Continuous loop recording allows recording to continue until stopped by operator
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* The optional DSBK-120 SDI Input/Output Board is required.
## Feature Comparison

### Digital Camcorders

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*1 Image Device of the DXC-D35WS/D35WSP is Three 2/3-type Power HAD HS CCDs.

*2 Combination of the DXC-D35WS/D35WSP+DSR-1/1P only.

*3 Electronically processed.

*4 Combination with the DXC-D25/D35/D35P/D35WSP and the CA-D50

*5 Output only. (input for video monitoring only)
### Feature Comparison

#### Digital VTRs

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<td>Assemble Editing</td>
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<td>Insert Editing</td>
<td>(Video/Text) (Video/Text) (Video/Text) (Video/Text) (Video/Text) (Video/Text) (Video/Text) (Video/Text) (Video/Text) (Video/Text) (Video/Text) (Video/Text) (Video/Text)</td>
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<td>Time Code Input/Outpu</td>
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<td>ClipLink</td>
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<td>High-speed Data Transfer</td>
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<tr>
<td><strong>Search Speed</strong></td>
<td>x ±60</td>
<td>x ±60</td>
<td>x ±60</td>
<td>x ±60</td>
<td>x ±32</td>
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<td>x ±32</td>
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<td>x ±32</td>
<td>x ±15</td>
<td>x ±15</td>
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<tr>
<td><strong>Digital Slow</strong></td>
<td>x ±1</td>
<td>x ±0.5</td>
<td>x ±0.5</td>
<td>x ±0.5</td>
<td>x ±0.5</td>
<td>x ±0.5</td>
<td>x ±0.5</td>
<td>x ±0.5</td>
<td>x ±0.5</td>
<td>x ±1/25</td>
<td>x ±1/25</td>
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<tr>
<td><strong>Others</strong></td>
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<tr>
<td>DV Playback Capability</td>
<td>(SP only) (SP only) (SP only) (SP only) (SP only) (SP only) (SP only) (SP only) (SP only) (SP only) (SP only) (SP only)</td>
<td>●</td>
<td>●</td>
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<tr>
<td>DVCPRO Playback Capability</td>
<td>●</td>
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<td>●</td>
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<tr>
<td>DV (SP mode) Recording Capability</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>5</td>
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<td>5</td>
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<td>5</td>
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<tr>
<td>Auto Repeat/Power-on Playback/Recording</td>
<td>–</td>
<td>*10</td>
<td>*10</td>
<td>*10</td>
<td>*10</td>
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<tr>
<td>Index Points Search</td>
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</tr>
<tr>
<td>Closed Caption</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
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<td>–</td>
</tr>
</tbody>
</table>

*1 Output only. 26-pin camera connector accepts composite video input.

*2 These signals share the same BNC connectors.

*3 As a player only.

*4 Control jack accepts LANC command as player.

*5 Input only.

*6 Wireless remote controller is not supplied.

*7 Playback only.

*8 Assemble or insert editing is not possible in the consumer DV format mode.

*9 When recording in DV (SP) format, transitions between cut to cut may not be smooth. In addition, when the recording format is switched between DVCPRO and DV, the transition may not be recorded smoothly.

*10 Auto repeat/Powers-record only.

*11 Auto repeat only.

*12 NTSC model only.

*13 Output from Monitor out connector only.

*14 Output from Video out connector only.

Foot Switch: – – – –

Wireless Remote Control: – – – – – –

DV Playback Capability: (SP only) (SP only) (SP only) (SP only) (SP only) (SP only) (SP only) (SP only) (SP only) (SP only) (SP only) (SP only)
**Application Examples**

### Field Editing

**Lap-top Editing System**
- Portable and compact cut-editing system package
- Simple cable connection with virtually no deterioration of picture and sound quality
- All-digital editing process
- DV/DVCAM/DVCPro to Betacam SX format editing
- Betacam SX to DVCAM format editing

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

**Simple Field Editing System**
- Portable and compact system package
- Assemble editing with up to 99 events × 4 programs

**Newsgathering and Image Transmission System**
- Minimum package for shooting and editing
- Simple cable connection with virtually no deterioration of picture and sound quality
- Internet transmission of urgently required images via a PC equipped with an i.LINK interface
Application Examples

Studio Editing – Nonlinear

SDI-based Nonlinear Editing System

• Direct digital connection with SDI-equipped nonlinear editing system
• High picture and sound quality by use of SDI and AES/EBU interfacing

* The DSR-70A does not support AES/EBU.

SDTI (QSDI)-based Nonlinear Editing System

• Superior multi-generation picture and sound quality by use of SDTI (QSDI) interfacing
• The DSR-85 can transfer data at four times normal speed to compatible nonlinear editing system

i.LINK-based Nonlinear Editing System (AV/C Protocol)

• Superior multi-generation picture and sound by use of i.LINK Connector interfacing
• Quick mechanical response (DSR-DR2000/1800/1500A)

i.LINK-based Nonlinear Editing System (SBP2 Protocol)

• Superior multi-generation picture and sound by use of i.LINK Connector interfacing
• High speed clip transfer to a compatible i.LINK equipped nonlinear editor.*

* Please contact your nearest Sony office or authorized dealer for nonlinear products that support clip transfer.
Application Examples

Studio Editing – Linear

Preread Editing System

- A/B roll editing with two VTRs*
- Audio mix/swap and voice over with no delay between video and audio
- Title editing with one VTR and Audio Mixer

* MIX and WIPE only

VTR-to-VTR Editing System

- Convenient two-machine editing system
- Remote operation from a distance of up to 10 meters (approx. 33 ft.) with the optional DSBK-200 Control Panel*

* For DSR-2000 System
Master Series Linear Editing System

- Full A/B-roll digital system with excellent editing performance and high quality Jog Audio
- Smooth migration to a full digital system

Low-cost, Simple Editing System

- LANC-based, simple and efficient editing with effects
- Possible to utilize existing format tapes

- Simple cut-editing system
- Space-saving with the compact DSR-45
Optional Accessories & Peripheral Equipment

**BP-L40A**
Rechargeable Battery Pack

**BP-L75**
Rechargeable Battery Pack

**BP-M50 M100**
Rechargeable Nickel Metal Hydride Battery Pack

**NP-F550**
Rechargeable Battery Pack

**NP-F750**
Rechargeable Battery Pack

**NP-F960**
Rechargeable Battery Pack

**NP-QM91D**
Rechargeable Battery Pack

**AC-V700A**
AC Adaptor/Charger

**AC-SQ500D**
AC Adaptor/Charger

**BC-M150**
Battery Charger for BP-L40A/BP-L90A, BP-90A

**BC-M50**
Battery Charger for BP-L40A/BP-L90A/BP-90A

**AC-550/550E**
AC Adaptor

**AC-SQ500D**
AC Adaptor/Charger

**CCU-D50/D50P**
Camera Control Unit

**RCP-TX7**
Remote Control Panel

**RM-M7G**
Remote Control Unit

*When it is attached to the DSR-570WS/390, a mount bracket (A-8274-968-B) included in the CA-370 is required.*
ACCESSORIES

**CA-370**
- Built-in Mic Adaptor for DR-100
- Includes a mount bracket (A-8274-968-B) to attach the DWF-1 to the DSR-570WS/390.

**DR-100**
- Headset

**CA-DU1**
- Camera Adaptor

**W80Y-50**
- Wide Conversion Lens Adaptor from Canon (for VCL-719BX)

**DSR-570WS**
- Wide Conversion Lens 0.7x
- Tele Conversion Lens 1.7x

**VF-58PK**
- Filter Kit

**VCT-U14**
- tripod adapter

**VCT-1170RM**
- Video Tripod with Remote Control

**UWP-C2**
- Wireless Microphone Package

**CA-WR855**
- Camera Adaptor for WRR-851A/851B

**WRR-851A/861B**
- UHF Synthesized Tuner

**BTA-801**
- Camera Adaptor for WRR-851A/851B

**CAC-12**
- Microphone Holder

**EC-0.3C2**
- Microphone Cable
## Optional Accessories & Peripheral Equipment

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
<th>Model Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECM-672/670</td>
<td>Condenser Microphone</td>
<td>DSR-70W, DSR-300, DSR-250, DSR-PD150</td>
</tr>
<tr>
<td>CVX-V1/V1P</td>
<td>Color Video Camera</td>
<td>DSR-10</td>
</tr>
<tr>
<td>CVX-V3/V3P</td>
<td>Color Video Camera</td>
<td>DSR-10</td>
</tr>
<tr>
<td>CVX-V19NS+/V18NSP</td>
<td>Color Video Camera</td>
<td>DSR-10</td>
</tr>
<tr>
<td>LC-424</td>
<td>Carrying Case (Hard type)</td>
<td>DSR-70W, DSR-300, DSCI0505R1</td>
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<tr>
<td>LC-400</td>
<td>Carrying Case (Soft type)</td>
<td>DSR-70W, DSR-300</td>
</tr>
<tr>
<td>LCH-TRV950</td>
<td>Hard Carrying Case</td>
<td>DSR-PD150</td>
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<tr>
<td>LC-PD150</td>
<td>Hard Carrying Case</td>
<td>DSR-PD150</td>
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<tr>
<td>LCR-1</td>
<td>Rain Cover</td>
<td>DSR-70W, DSR-300, DSCI0505R1</td>
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<td>FS-20</td>
<td>Foot Switch</td>
<td>DSR-20</td>
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<td>DSRM-20</td>
<td>Remote Control Unit</td>
<td>DSR-50, DSR-25, DSR-11</td>
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<tr>
<td>DSRM-E1/E1P</td>
<td>Edit Adaptor</td>
<td>DSR-V10</td>
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<tr>
<td>UVR-60/60P</td>
<td>i.LINK/DV Input/Output Board</td>
<td>DSR-2000, DSR-1800, DSR-1600, DSR-85</td>
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<tr>
<td>RMM-131</td>
<td>Rack Mount Kit</td>
<td>DSR-2000, DSR-1800, DSR-1600, DSR-85</td>
</tr>
<tr>
<td>BKNW-225</td>
<td>Docking Kit</td>
<td>DSR-70A</td>
</tr>
<tr>
<td>LC-DN220</td>
<td>Carrying Case</td>
<td>DSR-70A</td>
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<tr>
<td>DSBK-120</td>
<td>8-bit Input/Output Board</td>
<td>DSR-85</td>
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<tr>
<td>DSBK-140</td>
<td>8-bit Input/Output Board</td>
<td>DSR-70A</td>
</tr>
</tbody>
</table>
Optional Accessories & Peripheral Equipment

VMC-IL4408A/IL4415/IL4435
i.LINK Cable
(4-pin to 4-pin, 0.8 m/1.5 m/3.5 m)

CCF-3L
DV Cable
(6-pin with lock to 6-pin)

VMC-IL4615/IL4635
i.LINK Cable
(4-pin to 6-pin, 1.5 m/3.5 m)

CCFD-3L
DV Cable
(6-pin with lock to 4-pin)

VMC-IL6615/6635
i.LINK Cable
(6-pin to 6-pin, 1.5 m/3.5 m)

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

PDVM-32MEM/40MEM
Digital Video Cassette
(Master tape/Standard size)

PDV-34N/64N/94N/124N/184N
Digital Video Cassette
(Standard size)

PDV-34M/64M/94M/124M/184M/124ME/184ME
Digital Video Cassette
(Standard size)

PDV-12CL
Cleaning Cassette Tape
(Standard size)

PDVM-12CL
Cleaning Cassette Tape
(Mini size)

MSA-16A/32A/64A/128A
Memory Stick
(16 MB/32 MB/64 MB/128MB)
Peripheral Equipment

- VSR-2000A Video Server
- JZ-1 Videocassette Logging Software
- DFS-700A DME Switcher
- BVE-2000 Editing Control Unit
- PVE-500 Editing Control Unit
### Specifications (NTSC Models)

#### DSR-570WS/DSR-390/DXC-D35/D35WS+DSR-1 Camcorders

<table>
<thead>
<tr>
<th>Feature</th>
<th>DSR-570WS</th>
<th>DSR-390</th>
<th>D3C-D35/D35WS+DSR-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focus</td>
<td>52 mm (2.06&quot;)</td>
<td>52 mm (2.06&quot;)</td>
<td>52 mm (2.06&quot;)</td>
</tr>
<tr>
<td>Lens mount</td>
<td>Sony 2/3-inch type bayonet mount</td>
<td>Sony 1/2-inch type bayonet mount</td>
<td>Sony 2/3-inch type bayonet mount</td>
</tr>
<tr>
<td>Effective picture elements</td>
<td>980 (H) x 494 (V)</td>
<td>768 (H) x 494 (V)</td>
<td>980 (H) x 494 (V), D35: 768 (H) x 494 (V), D35WS: 980 (H) x 494 (V)</td>
</tr>
<tr>
<td>Camera Section</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous recording time</td>
<td>Approx. 70 min. with BP-L40A, 90 min. with BP-M50</td>
<td>Approx. 80 min with BP-L40A, 100 min. with BP-M50</td>
<td>Approx. 75 min with BP-L40A</td>
</tr>
<tr>
<td>Tape speed</td>
<td>28.193 mm/s</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power requirements</td>
<td>DC 12 V (11 to 17 V)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Operating temperature</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humidity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>Approx. 3 min. 4 3/4 x 7 3/8 x 7 3/8 inches</td>
<td>Approx. 12 min. 4 x 7 3/8 x 7 3/8 inches</td>
<td>Approx. 24 min. 4 x 12 3/8 x 12 3/8 inches</td>
</tr>
<tr>
<td>Weight</td>
<td>140 mm x 230 mm x 230 mm</td>
<td>185 mm x 280 mm x 280 mm</td>
<td>180 mm x 280 mm x 280 mm</td>
</tr>
<tr>
<td>Accessories supplied</td>
<td>Shoulder Strap, Lens Mount Cap, Flange Focus Adjustment. Edit list, Operating Instructions</td>
<td>Shoulder Strap, Connector Cap, Lithium Battery, 24-pin digital XLR input, XLR 4-pin female</td>
<td>Shoulder Strap, Connector Cap, Lithium Battery, 24-pin digital XLR input, XLR 4-pin female</td>
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</tbody>
</table>

#### DSR-1 Dockable Recorder

<table>
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<th>DSR-1</th>
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<tbody>
<tr>
<td>Focus</td>
<td>52 mm (2.06&quot;)</td>
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<tr>
<td>Lens mount</td>
<td>Sony 2/3-inch type bayonet mount</td>
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<tr>
<td>Effective picture elements</td>
<td>980 (H) x 494 (V)</td>
</tr>
<tr>
<td>Camera Section</td>
<td></td>
</tr>
<tr>
<td>Continuous recording time</td>
<td>Approx. 12 min. with BP-L40A</td>
</tr>
<tr>
<td>Tape speed</td>
<td>28.193 mm/s</td>
</tr>
<tr>
<td>Power requirements</td>
<td>DC 12 V (11 to 17 V)</td>
</tr>
<tr>
<td>General</td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td></td>
</tr>
<tr>
<td>Humidity</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>Approx. 3 min. 4 3/4 x 7 3/8 x 7 3/8 inches</td>
</tr>
<tr>
<td>Weight</td>
<td>140 mm x 230 mm x 230 mm</td>
</tr>
<tr>
<td>Accessories supplied</td>
<td>Shoulder Strap, Connector Cap, Lithium Battery, 24-pin digital XLR input, XLR 4-pin female</td>
</tr>
</tbody>
</table>

### Notes

1. DPR is equivalent to +6 dB gain up.
2. DPR is equivalent to +24 dB gain up.
3. DPR is equivalent to +36 dB gain up.
4. Hyper gain (30 dB+DPR): Equivalent to +36 dB gain up.
## Specifications (NTSC Models)

### DSR-250/DSR-PD150/DSR-PDX10

<table>
<thead>
<tr>
<th>Section</th>
<th>DSR-250</th>
<th>DSR-PD150</th>
<th>DSR-PDX10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power requirements</td>
<td>DC 12 V (11 V to 17 V)</td>
<td>DC 7.2 V (Battery), DC 8.4 V (AC adapter)</td>
<td>DC 7.2 V (Battery operation), DC 8.4 V (AC Adapter)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>10.5 W (with VF), 12.1 W (with VF and LCD)</td>
<td>4.7 W (with VF), 5.4 W (with LCD)</td>
<td>5.2 W (with VF), 6.5 W (with LCD)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>20°C to 60°C (4°F to 140°F)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tape speed</td>
<td>918 x 7 x 16 x 16 inches including microphone</td>
<td>9/18 x 7 16 x 16 inches including microphone</td>
<td>9/18 x 7 16 x 16 inches including microphone</td>
</tr>
<tr>
<td><strong>Recording/Playback time</strong></td>
<td>184 minutes (DVCAM mode), 270 minutes (DV SP mode with PDV-16ME)</td>
<td>40 minutes (DVCAM mode), 40 minutes (DVCAM mode), 60 minutes (DV SP mode with PDV-40ME)</td>
<td>40 minutes (DVCAM mode), 60 minutes (DV SP mode with PDV-40ME)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 9 lb 11 oz (4.4 kg)</td>
<td>Approx. 3 lb 8 oz (1.6 kg)</td>
<td>Approx. 2 lb 1 oz (0.9 kg)</td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>21/4 x 10 x 20 1/8 inches including microphone</td>
<td>12 x 180 x 405 mm including microphone</td>
<td>93 x 99 x 202 mm</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Zoom</strong></td>
<td>1:1 Variable Speed zoom lens</td>
<td>1:1 Variable Speed zoom lens</td>
<td>1:2.8 Variable Speed zoom lens</td>
</tr>
<tr>
<td><strong>Filter diameter</strong></td>
<td>2 3/8 inches (58 mm)</td>
<td>1 1/2 inches (37 mm)</td>
<td></td>
</tr>
<tr>
<td><strong>Focus</strong></td>
<td>Auto/Manual (iris ring)</td>
<td>Auto/Manual (iris ring)</td>
<td>Auto/Manual (iris ring)</td>
</tr>
<tr>
<td><strong>Built-in microphone</strong></td>
<td>Dynamic speaker</td>
<td>Dynamic speaker</td>
<td>Dynamic speaker</td>
</tr>
<tr>
<td><strong>LCD</strong></td>
<td>TFT Active Matrix, 2.5-inch type, 200,640 dots (880 x 228)</td>
<td>TFT Active Matrix, 3.5-inch type, 240,600 dots (1,120 x 220)</td>
<td></td>
</tr>
<tr>
<td><strong>Memory card slot</strong></td>
<td>Memory Stick</td>
<td>Memory Stick</td>
<td>Memory Stick</td>
</tr>
<tr>
<td><strong>Tape speed</strong></td>
<td>Approx. 28.2 mm/s (DVCAM mode), 40 minutes (DV SP mode with PDV-40ME)</td>
<td>Approx. 18.8 mm/s (DV SP mode)</td>
<td>Approx. 18.8 mm/s (DV SP mode)</td>
</tr>
<tr>
<td><strong>Image device</strong></td>
<td>Three 1/3-inch type CCDs, 380,000 pixels</td>
<td>Three 1/4.7-inch type CCDs, 1,070,000 pixels (gross)</td>
<td></td>
</tr>
<tr>
<td><strong>Signal system</strong></td>
<td>EIA Standard, NTSC color system</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Scanning system</strong></td>
<td>Progressive/Interlace Scan</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Horizontal resolution</strong></td>
<td>530 TV lines</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Minimum illumination</strong></td>
<td>7 lx</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gain selection</strong></td>
<td>+0, +3, +6, +9, +12, x 16 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Shutter speed selection</strong></td>
<td>1/4, 1/8, 1/15, 120, 180, 160, 1/100, 1/25, 1/180, 1/250, 1/500, 1/1000, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 s</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Exposure</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>White balance</strong></td>
<td>Auto/One-push/Outdoor (5800K)</td>
<td>Auto/One-push/Outdoor (5800K)</td>
<td>Auto/One-push/Outdoor (5800K)</td>
</tr>
<tr>
<td><strong>Viewfinder</strong></td>
<td>1.5-inch black and white CRT, Zebra Pattern</td>
<td>180,000 dot Black &amp; White LCD, Zebra Pattern</td>
<td></td>
</tr>
<tr>
<td><strong>Built-in microphone</strong></td>
<td>Combination microphone</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Memory card slot</strong></td>
<td>Memory Stick</td>
<td>Memory Stick</td>
<td>Memory Stick</td>
</tr>
<tr>
<td><strong>Input/Output Connectors</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Signal inputs/outputs</strong></td>
<td>Video IN/OUT: RCA pin x 1</td>
<td>Video IN/OUT: RCA pin x 1</td>
<td>Video IN/OUT: RCA pin x 1</td>
</tr>
<tr>
<td><strong>Others</strong></td>
<td>LANC: Stereo mini-mini jack (0.25 mm) x 1</td>
<td>LANC: Stereo mini-mini jack (0.25 mm) x 1</td>
<td>LANC: Stereo mini-mini jack (0.25 mm) x 1</td>
</tr>
<tr>
<td><strong>Supplied Accessories</strong></td>
<td>EEC-NVI Monaural Microphone</td>
<td>EEC-NVI Monaural Microphone</td>
<td>EEC-NVI Monaural Microphone</td>
</tr>
<tr>
<td><strong>RMT-811 Remote Commander and R6 Batteries</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Memory Stick</strong></td>
<td>RMT-811 Remote Commander and R6 Batteries (2)</td>
<td>RMT-811 Remote Commander and R6 Batteries (2)</td>
<td>RMT-811 Remote Commander and R6 Batteries (2)</td>
</tr>
<tr>
<td><strong>Memory Stick</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Memory Stick</strong></td>
<td>MSA-4A IC Recording Media Memory Stick</td>
<td>MSA-4A IC Recording Media Memory Stick</td>
<td>MSA-4A IC Recording Media Memory Stick</td>
</tr>
<tr>
<td><strong>Memory Stick</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Picture Gear 4.1 Lite</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lens Hood Cap</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Carrying Belt</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Specifications (NTSC Models)**

**DSR-2000/DSR-1800/DSR-1600/DSR-1500A/DSR-85**

**Studio VTRs**

### General
- **DSR-2000**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced
  - **DSR-1800**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced
  - **DSR-1600**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced
  - **DSR-1500A**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced
  - **DSR-85**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced

### Audio Performance
- **DSR-2000/DSR-1800/DSR-1600/DSR-1500A**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced
  - **DSR-85**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced

### Video Signal Inputs
- **DSR-2000/DSR-1800/DSR-1600/DSR-1500A**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced
  - **DSR-85**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced

### Video Signal Outputs
- **DSR-2000/DSR-1800/DSR-1600/DSR-1500A**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced
  - **DSR-85**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced

### Audio Input/Output
- **DSR-2000/DSR-1800/DSR-1600/DSR-1500A**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced
  - **DSR-85**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced

### Additional Information
- **DSR-2000/DSR-1800/DSR-1600/DSR-1500A**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced
  - **DSR-85**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced

### Supplied Accessories
- **DSR-2000/DSR-1800/DSR-1600/DSR-1500A**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced
- **DSR-85**
  - Frequency response: -6 dB to +6 dB (at burst level) -16 dBu, 8 kΩ, unbalanced

---

* The optional DSBK-1801 is required for the DSR-1600.
* The optional DSBK-1801 is required for the DSR-1500A.
* The optional DSBK-1801 is required for the DSR-85.
* The optional DSBK-1803 is required for the DSR-1800/1600.
* The optional DSBK-190 is required for the DSR-2000.
* The optional DSBK-1501 is required for the DSR-1500A.
* The optional DSBK-120 is required for the DSR-85.
* The optional DSBK-1601 is required for the DSR-1600.
* The optional DSBK-1602 is required for the DSR-1600.
### Specifications (NTSC Models)

**DSR-45/DSR-30/DSR-25/DSR-11**

**Studio VTRs**

<table>
<thead>
<tr>
<th>General</th>
<th>DSR-45</th>
<th>DSR-30</th>
<th>DSR-25</th>
<th>DSR-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>System</td>
<td>NTSC</td>
<td>NTSC/ PAL Switchover</td>
<td>NTSC/ PAL Switchover</td>
<td>NTSC/ PAL Switchover</td>
</tr>
<tr>
<td>Power requirements</td>
<td>AC100 to 240V, 50 to 60Hz</td>
<td>AC120V, 60Hz</td>
<td>AC100 to 240V, 50 to 60Hz</td>
<td>AC100 to 240V, 50 to 60Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>22 W</td>
<td>27 W</td>
<td>16 W</td>
<td>15 W</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>5 °C to 40 °C (41 °F to 104 °F)</td>
<td>-10 °C to 40 °C (-14 °F to 104 °F)</td>
<td>-10 °C to 40 °C (-14 °F to 104 °F)</td>
<td>-10 °C to 40 °C (-14 °F to 104 °F)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20 °C to 60 °C (-4 °F to 140 °F)</td>
<td>-20 °C to 60 °C (-4 °F to 140 °F)</td>
<td>-20 °C to 60 °C (-4 °F to 140 °F)</td>
<td>-20 °C to 60 °C (-4 °F to 140 °F)</td>
</tr>
<tr>
<td>Tape speed</td>
<td>DVCAM mode</td>
<td>28.2 mm/s</td>
<td>DVCAM mode</td>
<td>18.8 mm/s</td>
</tr>
<tr>
<td>Tape rewind time</td>
<td>Less than 2 min.</td>
<td>Less than 2 min.</td>
<td>Less than 2 min.</td>
<td>Less than 2 min.</td>
</tr>
</tbody>
</table>

| Video Signal Inputs | | | | |
|---------|--------|--------|--------|
| Component | BNC x3: Y: 1.0 Vp-p, 75 Ω, sync negative | BNC x3: Y: 1.0 Vp-p, 75 Ω, sync negative | BNC x3: Y: 1.0 Vp-p, 75 Ω, sync negative | BNC x3: Y: 1.0 Vp-p, 75 Ω, sync negative |
| Audio | PIN Jack x4: -10 to +4 dBu (full bits -20 dB) | PIN Jack x4: -10 to +4 dBu (full bits -20 dB) | PIN Jack x4: -10 to +4 dBu (full bits -20 dB) | PIN Jack x4: -10 to +4 dBu (full bits -20 dB) |
| Video | PIN Jack (L/R x1, front L/R x1): 2 Vrms (full bits) | PIN Jack (L/R x1, front L/R x1): 2 Vrms (full bits) | PIN Jack (L/R x1, front L/R x1): 2 Vrms (full bits) | PIN Jack (L/R x1, front L/R x1): 2 Vrms (full bits) |
| Audio | PIN Jack x4: -10 to +4 dBu (full bits -20 dB) | PIN Jack x4: -10 to +4 dBu (full bits -20 dB) | PIN Jack x4: -10 to +4 dBu (full bits -20 dB) | PIN Jack x4: -10 to +4 dBu (full bits -20 dB) |
| Video | PIN Jack (L/R x1, front L/R x1): 2 Vrms (full bits) | PIN Jack (L/R x1, front L/R x1): 2 Vrms (full bits) | PIN Jack (L/R x1, front L/R x1): 2 Vrms (full bits) | PIN Jack (L/R x1, front L/R x1): 2 Vrms (full bits) |

| Digital Input/Output (LINK (DVI)) | | | | |
|-------|--------|--------|--------|
| In | BNC x1: 0.5 to 1.8 Vp-p (time code input), 0.5 to 4 Vp-p (through output) | | | |
| Out | BNC x1: 2.0 Vp-p, 600 Ω (2.0 Vp-p, 600 Ω) | | | |

### Others

- **LANC**: Stereo mini-jack x1
  - **Control S1** (SIRCS): Stereo mini-jack x1
  - **Headphone**: Stereo mini-jack x1
  - **RS-422A**: D-sub 9-pin female x1
  - **RS-232C**: D-sub 9-pin male x1
- **LCD Monitor**: 2-inch type, 123,200 dots
- **Remote Control**: DSRM-20

### Supplied Accessories

- **RMT-DSS Wireless Remote Controller**: Size AA (R6) Batteries for Remote (2)
- **AC Power Cord**: AC Power Cord
- **Cleaning Cassette**: Operating Manual
- **RMT-DS30 Wireless Remote Controller**: Size AA (R6) Batteries for Remote (2)
- **AC Power Cord**: AC Power Cord
- **Cleaning Cassette**: Operating Manual

1. Shared between composite R and REF-IN.
2. *The audio output level of the DSR-40 will be reduced by half when connected to an unbalanced XLR input device.*
3. *Recommended remote control unit: DSRM-20*
### Specifications (NTSC Models)

#### DSR-70A Portable Editing Recorder

**General**
- **Power requirements**: DC 12 V (without options)
- **Power consumption**: 46 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)
- **Tape speed**: 29.18 mm/s
- **Recording/Playback time**: 247 x 92.5 x 311 mm (9 3/4 x 3 3/4 x 12 1/4 inches), excluding projections
- **Dimensions (W x H x D)**: 211 x 149 x 443 mm (8 3/8 x 5 7/8 x 17 1/2 inches), including projections
- **Weight**: 12 lb 12 oz (5.8 kg)
- **Playback mode**: 48 kHz/16-bit (2CH)
- **Recording mode**: 48 kHz/16-bit (2CH)

**Video Signal Outputs**

### Analog

- **Component (BNC x3)**: Y: 1.0 Vp-p, 75 Ω, sync negative
  R-Y: 0.7 Vp-p, 75 Ω (50%)
  B-Y: 0.7 Vp-p, 75 Ω (50%)
- **Component (BNC x3)**: C: 0.286 Vp-p, 75 Ω (at burst level)

**Digital**

- **SDT-DI (BNC x1)**: Conforms to Serial Digital Interface (270 Mb/s), SMPTE 259M
- **SDTI (QSDI) (BNC x1)**: Conforms to SDTI (370 Mb/s), SMPTE 305M
- **S-Video (DIN 4-pin x1)**: Y: 1.0 Vp-p, 75 Ω

**Audio Signal Inputs**

### Analog

- **Audio (CH-1,2) (XLR 3-pin male x2)**: +48/60 dBu, high impedance, balanced

### Video Signal Inputs

- **Reference Video (BNC x2)**: Y: 0.286 Vp-p, 75 Ω (at burst level)
- **Reference Video (BNC x2)**: R-Y: 0.7 Vp-p, 75 Ω (50%)
- **Reference Video (BNC x2)**: B-Y: 0.7 Vp-p, 75 Ω (50%)

**Audio Switches**

- **Audio OUT (Monitor)**: PIN Jack, x 4, -10 dBu
- **Audio OUT (Monitor)**: PIN Jack

- **Audio OUT**: RCA, x 4, CCIR (75 Ω)

### Supplied Accessories

- **Supplied Accessories**: LCD Protection Cover, Cleaning Cassette

#### DSR-50 Portable Recorder

**General**
- **System**: NTSC
- **Power requirements**: DC 12 V
- **Power consumption**: 10 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)
- **Tape speed**: 24 minutes (4.8 mm/s), 40 minutes (9.6 mm/s) (DV SP mode)
- **Recording/Playback time**: 247 x 92.5 x 311 mm (9 3/4 x 3 3/4 x 12 1/4 inches), excluding projections
- **Dimensions (W x H x D)**: 247 x 92.5 x 315 mm (9 3/4 x 3 3/4 x 12 1/4 inches), including projections

**Video**

- **Recording mode**: UY/UCAM/UV (5P mode only)
- **Playback mode**: UY/UCAM/UV (5P mode only)

**Audio**

- **Recording mode**: 48.0 kHz/16-bit (2CH)
  32.0 kHz/12-bit (2CH)
- **Playback mode**: 48.0 kHz/16-bit (2CH)
  32.0 kHz/12-bit (2CH) (automatically selected)

**Input/Output Terminals**

- **Video IN**: Composite
  - Y: 1.0 Vp-p, 75 Ω, sync negative
  - C: 0.286 Vp-p (subcarrier burst) 75 Ω
- **Video OUT**: Composite
  - Y: 1.0 Vp-p, 75 Ω, sync negative
  - C: 0.286 Vp-p (subcarrier burst) 75 Ω

**Audio OUT**: PIN Jack, x 4, -10 dBu

- **Headphone jack (left side)**: Stereo mini jack
- **Headphone jack (right side)**: Stereo standard jack, -10 dBu, with Level Control

- **Supplied accessories**: LCD Protection Cover, Cleaning Cassette
## Specifications (NTSC Models)

### DSR-V10

**DSR-V10**

**DVCam Video Walkman Recorder**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>Power requirements: DC 7.2 V (with battery), DC 8.4 V (with AC adapter)</td>
</tr>
<tr>
<td></td>
<td>Power consumption: 8.5 W</td>
</tr>
<tr>
<td></td>
<td>Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)</td>
</tr>
<tr>
<td></td>
<td>Storage temperature: -20 °C to 60 °C (-4 °F to 140 °F)</td>
</tr>
<tr>
<td></td>
<td>Weight: 1.6 kg (3 lb 11 oz)</td>
</tr>
<tr>
<td></td>
<td>Dimensions (W x H x D): 208 x 161 x 28 mm (8 1/8 x 6 3/8 x 1 1/8 inches)</td>
</tr>
<tr>
<td><strong>Audio Signal Inputs</strong></td>
<td>Analog</td>
</tr>
<tr>
<td></td>
<td>Addi. OUT (4-pin female x 2): +600 mV, selectable by menu, high-impedance</td>
</tr>
<tr>
<td><strong>Audio (Digital)</strong></td>
<td>75 Ohm, unbalanced</td>
</tr>
<tr>
<td><strong>Video Signal Outputs</strong></td>
<td>Analog</td>
</tr>
<tr>
<td></td>
<td>Composite synchron. (BNC x 1): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td></td>
<td>Component (BNC x 2): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td><strong>Audio (Digital)</strong></td>
<td>75 Ohm, unbalanced</td>
</tr>
<tr>
<td><strong>Video Signal Inputs</strong></td>
<td>Analog</td>
</tr>
<tr>
<td></td>
<td>S-Video (BNC x 2): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td></td>
<td>Component (BNC x 2): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td><strong>Audio (Digital)</strong></td>
<td>75 Ohm, unbalanced</td>
</tr>
</tbody>
</table>

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

**DSRM-E1**

**Edit Adaptor for DSR-V10**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>Power requirements: DC 7.2 V (supplied from DSR-V10), DC 8.4 V (with AC adapter)</td>
</tr>
<tr>
<td></td>
<td>Power consumption: 5.5 W</td>
</tr>
<tr>
<td></td>
<td>Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)</td>
</tr>
<tr>
<td></td>
<td>Storage temperature: -20 °C to 60 °C (-4 °F to 140 °F)</td>
</tr>
<tr>
<td></td>
<td>Weight: 0.7 kg (1 lb 10 oz)</td>
</tr>
<tr>
<td></td>
<td>Dimensions (W x H x D): 210 x 130 x 422 mm (8 1/2 x 5 1/8 x 16 5/8 inches)</td>
</tr>
<tr>
<td><strong>Audio Signal Inputs</strong></td>
<td>Analog</td>
</tr>
<tr>
<td></td>
<td>Audio input (RCA x 3): 0.15 Vrms, 10 kOhm, unbalanced</td>
</tr>
<tr>
<td><strong>Audio (Digital)</strong></td>
<td>75 Ohm, unbalanced</td>
</tr>
<tr>
<td><strong>Video Signal Outputs</strong></td>
<td>Analog</td>
</tr>
<tr>
<td></td>
<td>Composite synchron. (BNC x 1): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td></td>
<td>Component (BNC x 2): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td><strong>Audio (Digital)</strong></td>
<td>75 Ohm, unbalanced</td>
</tr>
<tr>
<td><strong>Video Signal Inputs</strong></td>
<td>Analog</td>
</tr>
<tr>
<td></td>
<td>S-Video (Mini DIN 4-pin x 1): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td></td>
<td>Audio (XLR 3-pin female x 2): -6/0/+4 dBu (selectable by menu), high-impedance</td>
</tr>
<tr>
<td><strong>Audio (Digital)</strong></td>
<td>75 Ohm, unbalanced</td>
</tr>
</tbody>
</table>

### DSR-DU1

**DSR-DU1**

**Video Disk Unit**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>Power requirements: DC 8.4 V</td>
</tr>
<tr>
<td></td>
<td>Power consumption: 5.5 W</td>
</tr>
<tr>
<td></td>
<td>Weight: 0.6 kg (1 lb 4 oz)</td>
</tr>
<tr>
<td></td>
<td>Luminance (x H x T): 66 x 101 x 142 mm (8 3/8 x 5 1/8 x 16 5/8 inches)</td>
</tr>
<tr>
<td></td>
<td>Storage temperature: 0 °C to 40 °C (32 °F to 104 °F)</td>
</tr>
<tr>
<td></td>
<td>Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)</td>
</tr>
<tr>
<td></td>
<td>Power consumption: 8.7 W</td>
</tr>
<tr>
<td></td>
<td>Power requirements: DC 8.4 V</td>
</tr>
<tr>
<td><strong>Audio Signal Inputs</strong></td>
<td>Analog</td>
</tr>
<tr>
<td></td>
<td>Audio input (RCA x 1): 0.327 V, impedance 47 kOhm, unbalanced</td>
</tr>
<tr>
<td><strong>Audio (Digital)</strong></td>
<td>75 Ohm, unbalanced</td>
</tr>
<tr>
<td><strong>Video Signal Outputs</strong></td>
<td>Analog</td>
</tr>
<tr>
<td></td>
<td>Composite synchron. (BNC x 1): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td></td>
<td>Component (BNC x 2): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td><strong>Audio (Digital)</strong></td>
<td>75 Ohm, unbalanced</td>
</tr>
<tr>
<td><strong>Video Signal Inputs</strong></td>
<td>Analog</td>
</tr>
<tr>
<td></td>
<td>S-Video (Mini DIN 4-pin x 1): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td></td>
<td>Audio (XLR 3-pin female x 2): -6/0/+4 dBu (selectable by menu)</td>
</tr>
<tr>
<td><strong>Audio (Digital)</strong></td>
<td>75 Ohm, unbalanced</td>
</tr>
</tbody>
</table>

### DSR-DR1000

**DSR-DR1000**

**Hard Disc Recorder**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>Power requirements: DC 7.2 V (with battery), DC 8.4 V (with AC adapter)</td>
</tr>
<tr>
<td></td>
<td>Power consumption: 5.5 W</td>
</tr>
<tr>
<td></td>
<td>Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)</td>
</tr>
<tr>
<td></td>
<td>Storage temperature: -20 °C to 60 °C (-4 °F to 140 °F)</td>
</tr>
<tr>
<td></td>
<td>Weight: 0.7 kg (1 lb 10 oz)</td>
</tr>
<tr>
<td></td>
<td>Dimensions (W x H x D): 210 x 130 x 422 mm (8 1/2 x 5 1/8 x 16 5/8 inches)</td>
</tr>
<tr>
<td><strong>Audio Signal Inputs</strong></td>
<td>Analog</td>
</tr>
<tr>
<td></td>
<td>Audio input (RCA x 3): 0.15 Vrms, 10 kOhm, unbalanced</td>
</tr>
<tr>
<td><strong>Audio (Digital)</strong></td>
<td>75 Ohm, unbalanced</td>
</tr>
<tr>
<td><strong>Video Signal Outputs</strong></td>
<td>Analog</td>
</tr>
<tr>
<td></td>
<td>Composite synchron. (BNC x 1): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td></td>
<td>Component (BNC x 2): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td><strong>Audio (Digital)</strong></td>
<td>75 Ohm, unbalanced</td>
</tr>
<tr>
<td><strong>Video Signal Inputs</strong></td>
<td>Analog</td>
</tr>
<tr>
<td></td>
<td>S-Video (Mini DIN 4-pin x 1): 1.0 Vp-p, 75 Ohm, sync negative</td>
</tr>
<tr>
<td></td>
<td>Audio (XLR 3-pin female x 2): -6/0/+4 dBu (selectable by menu)</td>
</tr>
<tr>
<td><strong>Audio (Digital)</strong></td>
<td>75 Ohm, unbalanced</td>
</tr>
</tbody>
</table>
### Specifications (PAL Models)

#### DSR-570WSP/DSR-390P/DXC-D35P/D35WSP+DSR-1P

<table>
<thead>
<tr>
<th>Feature</th>
<th>DSR-570WSP</th>
<th>DSR-390P</th>
<th>DXC-D35P/D35WSP+DSR-1P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power requirements</td>
<td>D.C. 12 V +1/-1 V</td>
<td>D.C. 12 V +1/-1 V</td>
<td>D.C. 12 V +1/-1 V</td>
</tr>
<tr>
<td>Power consumption</td>
<td>12 W</td>
<td>12 W</td>
<td>12 W</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 °C to 40 °C</td>
<td>0 °C to 40 °C</td>
<td>0 °C to 40 °C</td>
</tr>
<tr>
<td>Long-term</td>
<td>Approx. 12 min.</td>
<td>Approx. 12 min.</td>
<td>Approx. 2 min.</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20 °C to 60 °C</td>
<td>-20 °C to 60 °C</td>
<td>-20 °C to 60 °C</td>
</tr>
<tr>
<td>Power consumption (with VF)</td>
<td>12 W</td>
<td>12 W</td>
<td>12 W</td>
</tr>
<tr>
<td>Power requirements</td>
<td>D.C. 12 V +1/-1 V</td>
<td>D.C. 12 V +1/-1 V</td>
<td>D.C. 12 V +1/-1 V</td>
</tr>
<tr>
<td>Power consumption</td>
<td>12 W</td>
<td>12 W</td>
<td>12 W</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 °C to 40 °C</td>
<td>0 °C to 40 °C</td>
<td>0 °C to 40 °C</td>
</tr>
<tr>
<td>Long-term</td>
<td>Approx. 12 min.</td>
<td>Approx. 12 min.</td>
<td>Approx. 2 min.</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20 °C to 60 °C</td>
<td>-20 °C to 60 °C</td>
<td>-20 °C to 60 °C</td>
</tr>
<tr>
<td>Power requirements</td>
<td>D.C. 12 V +1/-1 V</td>
<td>D.C. 12 V +1/-1 V</td>
<td>D.C. 12 V +1/-1 V</td>
</tr>
<tr>
<td>Power consumption</td>
<td>12 W</td>
<td>12 W</td>
<td>12 W</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 °C to 40 °C</td>
<td>0 °C to 40 °C</td>
<td>0 °C to 40 °C</td>
</tr>
<tr>
<td>Long-term</td>
<td>Approx. 12 min.</td>
<td>Approx. 12 min.</td>
<td>Approx. 2 min.</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20 °C to 60 °C</td>
<td>-20 °C to 60 °C</td>
<td>-20 °C to 60 °C</td>
</tr>
<tr>
<td>Specifications (PAL Models)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DSR-250P/DSR-PD150P/DSR-PDX10P</strong> Camcoriders</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### General

<table>
<thead>
<tr>
<th>Model</th>
<th>Power requirements</th>
<th>Power consumption</th>
<th>Operating temperature</th>
<th>Storage temperature</th>
<th>Tape speed</th>
<th>Recording/Playback time</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DSR-250P</strong></td>
<td>DC 12 V (11 V to 17 V)</td>
<td>10.5 W (with VF, 20.1 W with VF and LCD)</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>-20°C to 60°C (-4°F to 140°F)</td>
<td>APS (24 mm) mode</td>
<td>184 minutes (DVCPG mode), 270 minutes (DV SP mode)</td>
<td>approx. 4.4 kg (9 lb 11 oz)</td>
</tr>
<tr>
<td><strong>DSR-PD150P</strong></td>
<td>DC 7.2 V (battery), DC 8.4 V (AC adapter)</td>
<td>4.7 W (with VF), 9.4 W (with LCD)</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>-20°C to 60°C (-4°F to 140°F)</td>
<td>APS (24 mm) mode</td>
<td>184 minutes (DVCPG mode), 270 minutes (DV SP mode)</td>
<td>approx. 4.4 kg (9 lb 11 oz)</td>
</tr>
<tr>
<td><strong>DSR-PDX10P</strong></td>
<td>DC 7.2 V (battery operation), DC 8.4 V (AC Adapter)</td>
<td>5.0 W (with VF), 6.3 W (with LCD)</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>-20°C to 60°C (-4°F to 140°F)</td>
<td>APS (24 mm) mode</td>
<td>184 minutes (DVCPG mode), 270 minutes (DV SP mode)</td>
<td>approx. 4.4 kg (9 lb 11 oz)</td>
</tr>
</tbody>
</table>

### Input/Output Connectors

<table>
<thead>
<tr>
<th>Model</th>
<th>Signal inputs/outputs</th>
<th>Lens</th>
<th>Focus</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DSR-250P</strong></td>
<td>Video INPUT: RCA pin x 1, Y: 1 Vp-p, 75 Ω, unbalanced, sync negative Video OUT: BNC pin x 1, Y: 1 Vp-p, 75 Ω, unbalanced, sync negative Audio INPUT: RCA pin x 2, 2.245 m Output impedance with less than 2.2 kΩ Input impedance with more than 47 kΩ S-Video INPUT: Mini-DIN pin x 1, C: 0.3 Vp-p (PAL) Audio INPUT: XLR 3-pin (female) x 3, 60 dB, 6.8 kΩ, +4 dBu, 6.8 kΩ (0 dBu = 0.775 Vrms) Link (DV): 6 pin (with lock) x 1</td>
<td>12.1 Variable Speed zoom lens</td>
<td>Auto/Manual (ring)Infinity/One push auto</td>
</tr>
<tr>
<td><strong>DSR-PD150P</strong></td>
<td>Video INPUT: RCA pin x 1, Y: 1 Vp-p, 75 Ω, unbalanced, sync negative Audio INPUT: RCA pin x 2, 2.245 m Output impedance with less than 2.2 kΩ Input impedance with more than 47 kΩ S-Video INPUT: Mini-DIN pin x 1, C: 0.3 Vp-p (PAL) Audio INPUT: XLR 3-pin (female) x 3, 60 dB, 6.8 kΩ, +4 dBu, 6.8 kΩ (0 dBu = 0.775 Vrms) Link (DV): 6 pin (with lock) x 1</td>
<td>12.1 Variable Speed zoom lens</td>
<td>Auto/Manual (ring)Infinity/One push auto</td>
</tr>
<tr>
<td><strong>DSR-PDX10P</strong></td>
<td>Video INPUT: RCA pin x 1, Y: 1 Vp-p, 75 Ω, unbalanced, sync negative Audio INPUT: RCA pin x 2, 2.245 m Output impedance with less than 2.2 kΩ Input impedance with more than 47 kΩ S-Video INPUT: Mini-DIN pin x 1, C: 0.3 Vp-p (PAL) Audio INPUT: XLR 3-pin (female) x 3, 60 dB, 6.8 kΩ, +4 dBu, 6.8 kΩ (0 dBu = 0.775 Vrms) Link (DV): 6 pin (with lock) x 1</td>
<td>12.1 Variable Speed zoom lens</td>
<td>Auto/Manual (ring)Infinity/One push auto</td>
</tr>
</tbody>
</table>

### Memory Card Slot

<table>
<thead>
<tr>
<th>Model</th>
<th>Memory Stick</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DSR-250P</strong></td>
<td>Recording signals: Camera signals, VTR signals Image compression: JPEG Image size: VGA (640 x 480)</td>
</tr>
<tr>
<td><strong>DSR-PD150P</strong></td>
<td>Recording signals: Camera signal, VTR signal Image compression: JPEG, MPEG Image size: JPEG, 640 x 480, 1,152 x 864 MPEG: 160 x 112, 320 x 240</td>
</tr>
<tr>
<td><strong>DSR-PDX10P</strong></td>
<td>Recording signals: Camera signal, VTR signal Image compression: JPEG, MPEG Image size: JPEG, 640 x 480, 1,152 x 864 MPEG: 160 x 112, 320 x 240</td>
</tr>
</tbody>
</table>

### Supplied Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DSR-250P</strong></td>
<td>ECM-NY1 Monaural Microphone RMT-811 Remote Commander and R6 Batteries (2) MSA-4A IC Recording Module Memory Stick MSA-JSU2 Memory Stick Reader/Writer Picture Gear 4.1 Lite Lens Hood Hood Cap</td>
</tr>
<tr>
<td><strong>DSR-PD150P</strong></td>
<td>ECM-NY1 Monaural Microphone AC-L10 AC Adaptor NP FM30 InfoLITHIUM Rechargeable Battery Pack RMT-811 Remote Commander and R6 Batteries (2) MSA-4A IC Recording Module Memory Stick MSA-JSU2 Memory Stick Reader/Writer Picture Gear 4.1 Lite Stereo AV Cable, Lens Hood Hood Cap, Carrying Belt</td>
</tr>
<tr>
<td><strong>DSR-PDX10P</strong></td>
<td>ECM-NY1 Monaural Microphone AC-L10 AC Adaptor NP FM50 InfoLITHIUM Rechargeable Battery Pack RMT-811 Remote Commander and R6 Batteries (2) MSA-4A IC Recording Module Memory Stick XLR Adaptor Special Stereo AV Cable, Lens Hood, Wide Lens Hood, Hood Cap Image Mixor for SonyUSB Driver Software CD-ROM</td>
</tr>
</tbody>
</table>
### Specifications (PAL Models)

#### DSR-2000P/DSR-1800P/DSR-1600P/DSR-1500AP/DSR-85P

<table>
<thead>
<tr>
<th>Model</th>
<th>DSR-2000P</th>
<th>DSR-1800P</th>
<th>DSR-1600P</th>
<th>DSR-1500AP</th>
<th>DSR-85P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power requirements</td>
<td>AC 100 V to 240 V, 50/60 Hz</td>
<td>AC 100 V to 240 V, 50/60 Hz</td>
<td>AC 100 V to 240 V, 50/60 Hz</td>
<td>AC 100 V to 240 V, 50/60 Hz</td>
<td>AC 100 V to 240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Power consumption (Max.)</td>
<td>120 W</td>
<td>120 W</td>
<td>120 W</td>
<td>120 W</td>
<td>120 W</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>18 kg (empty)</td>
<td>14 kg (empty)</td>
<td>8 kg (empty)</td>
<td>6 kg (empty)</td>
<td>4.5 kg (empty)</td>
</tr>
<tr>
<td>Video Performance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Video signal output</td>
<td>0.3 Vp-p, 75 Ω sync negative</td>
<td>0.3 Vp-p, 75 Ω sync negative</td>
<td>0.3 Vp-p, 75 Ω sync negative</td>
<td>0.3 Vp-p, 75 Ω sync negative</td>
<td>0.3 Vp-p, 75 Ω sync negative</td>
</tr>
<tr>
<td>Audio signal output</td>
<td>0.6 Vp-p, 600 Ω, balanced</td>
<td>0.6 Vp-p, 600 Ω, balanced</td>
<td>0.6 Vp-p, 600 Ω, balanced</td>
<td>0.6 Vp-p, 600 Ω, balanced</td>
<td>0.6 Vp-p, 600 Ω, balanced</td>
</tr>
<tr>
<td>Dynamic range</td>
<td>More than 90 dB</td>
<td>More than 87 dB</td>
<td>More than 85 dB</td>
<td>More than 85 dB</td>
<td>More than 85 dB</td>
</tr>
<tr>
<td>Frequency response</td>
<td>Y/C delay Less than 30 ns</td>
<td>Y/C delay Less than 30 ns</td>
<td>Y/C delay Less than 30 ns</td>
<td>Y/C delay Less than 30 ns</td>
<td>Y/C delay Less than 30 ns</td>
</tr>
<tr>
<td>Audio</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Headphone</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

#### Studio VTRs

<table>
<thead>
<tr>
<th>Model</th>
<th>DSR-2000P</th>
<th>DSR-1800P</th>
<th>DSR-1600P</th>
<th>DSR-1500AP</th>
<th>DSR-85P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape speed</td>
<td>2.5 mm (60 IPS)</td>
<td>2.5 mm (60 IPS)</td>
<td>2.5 mm (60 IPS)</td>
<td>2.5 mm (60 IPS)</td>
<td>2.5 mm (60 IPS)</td>
</tr>
<tr>
<td>Recording/Playback time</td>
<td>Standard size: 184 min. (DVCAM mode), 276 min. (DV SP mode) with PDV-184ME/184N/184ME</td>
<td>Standard size: 184 min. (DVCAM mode), 276 min. (DV SP mode) with PDV-184ME/184N/184ME</td>
<td>Standard size: 184 min. (DVCAM mode), 276 min. (DV SP mode) with PDV-184ME/184N/184ME</td>
<td>Standard size: 184 min. (DVCAM mode), 276 min. (DV SP mode) with PDV-184ME/184N/184ME</td>
<td>Standard size: 184 min. (DVCAM mode), 276 min. (DV SP mode) with PDV-184ME/184N/184ME</td>
</tr>
</tbody>
</table>

### Recording/Playback Time

- Standard size: 184 min. (DVCAM mode), 276 min. (DV SP mode) with PDV-184ME/184N/184ME
- Mini size: 40 min. (DVCAM mode), 60 min. (DV SP mode) with PDVM-40ME/40N/40MEM

### Additional Features

- The DSR-1500A only
- The optional DSBK-1504A is required for the DSR-1500A.
- The optional DSBK-1505A is required for the DSR-1500A.
- The optional DSBK-1506A is required for the DSR-1500A.
- The optional DSBK-1507A is required for the DSR-1500A.
- The optional DSBK-1508A is required for the DSR-1500A.
- The optional DSBK-1509A is required for the DSR-1500A.
## Specifications (PAL Models)

### DSR-45P/DSR-30P/DSR-25/DSR-11

<table>
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<tr>
<th>Studio VTRs</th>
<th>DSR-45P</th>
<th>DSR-30P</th>
<th>DSR-25</th>
<th>DSR-11</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System</td>
<td>PAL</td>
<td>NTSC/PAL switchable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power requirements</td>
<td>AC100 to 240V, 50 to 60Hz</td>
<td>AC100 to 240V, 50 to 60Hz</td>
<td>AC100 to 240V, 50 to 60Hz</td>
<td>AC100 to 240V, 50 to 60Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>22 W</td>
<td>27 W</td>
<td>16 W</td>
<td>15 W</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>5 °C to 40 °C (41 °F to 104 °F)</td>
<td>5 °C to 40 °C (41 °F to 104 °F)</td>
<td>5 °C to 40 °C (41 °F to 104 °F)</td>
<td>5 °C to 40 °C (41 °F to 104 °F)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20 °C to 60 °C (-4 °F to 140 °F)</td>
<td>-20 °C to 60 °C (-4 °F to 140 °F)</td>
<td>-20 °C to 60 °C (-4 °F to 140 °F)</td>
<td>-20 °C to 60 °C (-4 °F to 140 °F)</td>
</tr>
<tr>
<td><strong>Tape</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>DVCAM mode</td>
<td>DVCAM mode</td>
<td>DVCAM mode</td>
<td>DVCAM mode</td>
</tr>
<tr>
<td>Duration</td>
<td>29.2 min.</td>
<td>19.8 min.</td>
<td>18.6 min.</td>
<td>17.4 min.</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approx.</td>
<td>4.6 kg (10 lb 2 oz)</td>
<td>9.2 kg (20 lb 4 oz)</td>
<td>4.3 kg (9 lb 8 oz)</td>
<td>2.8 kg (6 lb 2 oz)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>(W x H x D, including projections)</td>
<td>(W x H x D, including projections)</td>
<td>(W x H x D, including projections)</td>
<td>(W x H x D, including projections)</td>
</tr>
<tr>
<td>Approx.</td>
<td>212 x 98 x 392.8 mm</td>
<td>430 x 129 x 374 mm</td>
<td>212 x 98 x 392.8 mm</td>
<td>180 x 73 x 265 mm</td>
</tr>
<tr>
<td>Approx.</td>
<td>8 3/8 x 3 7/8 x 15 1/2 inches</td>
<td>17 x 5 1/8 x 14 3/4 inches</td>
<td>8 3/8 x 3 7/8 x 15 1/2 inches</td>
<td>7 1/8 x 2 7/8 x 10 1/2 inches</td>
</tr>
<tr>
<td><strong>Video Signal Inputs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rec. mode</td>
<td>DVCAM/SDV (SP mode only)</td>
<td>DVCAM</td>
<td>DVCAM/SDV (SP mode only)</td>
<td></td>
</tr>
<tr>
<td>PIN mode</td>
<td>DVCAM/SDV (SP mode only)</td>
<td>DVCAM</td>
<td>DVCAM/SDV (SP mode only)</td>
<td></td>
</tr>
<tr>
<td>PIN video</td>
<td>BNC x1 (75 Ω) [sync negative]</td>
<td>BNC x1</td>
<td>BNC x1</td>
<td>BNC x1</td>
</tr>
<tr>
<td>Composite</td>
<td>BNC x1 + PIN x1, 75 Ω</td>
<td>BNC x1 + PIN x1, 75 Ω</td>
<td>BNC x1 + PIN x1, 75 Ω</td>
<td>BNC x1 + PIN x1, 75 Ω</td>
</tr>
<tr>
<td>S-video</td>
<td>4-pin mini DIN (x1) Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
<td>4-pin mini DIN (x1) Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
<td>4-pin mini DIN (x1) Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
<td>4-pin mini DIN (x1) Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
</tr>
<tr>
<td>Component</td>
<td>BNC x3 Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
<td>BNC x3 Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
<td>BNC x3 Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
<td>BNC x3 Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
</tr>
<tr>
<td><strong>Audio Signal Inputs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio</td>
<td>PIN jack x4, -10/-4 dBu, (full bits -18 dB)</td>
<td>PIN jack (LR x1, front LR x1)</td>
<td>2 Wms (full bits)</td>
<td>PIN jack (LR x1)</td>
</tr>
<tr>
<td><strong>Video Signal Outputs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Composite</td>
<td>BNC x1</td>
<td>BNC x1</td>
<td>BNC x1</td>
<td>BNC x1</td>
</tr>
<tr>
<td>S-video</td>
<td>Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
<td>Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
<td>Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
<td>Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
</tr>
<tr>
<td>Component</td>
<td>BNC x3 Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
<td>BNC x3 Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
<td>BNC x3 Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
<td>BNC x3 Y: 1.0 Vp-p, 75 Ω [sync negative]</td>
</tr>
<tr>
<td><strong>Audio Signal Outputs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio</td>
<td>XLR pin x4 (Male) +48 dB, (full bits -20 dB)</td>
<td>PIN jack (LR x1)</td>
<td>2 Wms (full bits)</td>
<td>PIN jack (LR x1)</td>
</tr>
<tr>
<td><strong>Digital Input/Output</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Link [DC]</td>
<td>4-pin x1, IEEE1394</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time code input/output</td>
<td>BNC x1, 0.5 to 18 Vp-p (time code output)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Out</td>
<td>BNC x1, 2.2 Vp-p, 600 Ω (0 to 5 Vp-p)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td>LANC, Stereo min-mini jack x1</td>
<td>LANC, Stereo min-mini jack x2</td>
<td>LANC, Stereo min-mini jack x1</td>
<td>LANC, Stereo min-mini jack x1</td>
</tr>
<tr>
<td></td>
<td>Control 5° (SIRCS) in: Stereo min mini jack x1</td>
<td>Control 5° (SIRCS) in: Stereo min mini jack x2</td>
<td>Control 5° (SIRCS) in: Stereo min mini jack x1</td>
<td>Control 5° (SIRCS) in: Stereo min mini jack x1</td>
</tr>
<tr>
<td></td>
<td>Headphone: Stereo min jack x1</td>
<td>Headphone: Stereo min jack x2</td>
<td>Headphone: Stereo min jack x1</td>
<td>Headphone: Stereo min jack x1</td>
</tr>
<tr>
<td>LCD Monitor</td>
<td>2-inch type, 123,200 dots</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Supplied Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMT-DS5 wireless Remote Controller</td>
<td>Size AA (R6) Batteries for Remote (2)</td>
</tr>
<tr>
<td>RMT-DS5X Wireless Remote Controller</td>
<td>AC Power Cord</td>
</tr>
<tr>
<td>Size AA (R6) Batteries for Remote (2)</td>
<td>Cleaning Cassette</td>
</tr>
<tr>
<td>Size AA (R6) Batteries for Remote (2)</td>
<td>Operating Manual</td>
</tr>
<tr>
<td>Size AA (R6) Batteries for Remote (2)</td>
<td>LANC Cable</td>
</tr>
<tr>
<td>RMT-DS5 Wireless Remote Controller</td>
<td>AC Adapter for Power Cord</td>
</tr>
<tr>
<td>Size AA (R6) Batteries for Remote (2)</td>
<td>RMT-DS51 Wireless Remote Commander</td>
</tr>
<tr>
<td>Size AA (R6) Batteries for Remote (2)</td>
<td>Cleaning Cassette</td>
</tr>
<tr>
<td>Size AA (R6) Batteries for Remote (2)</td>
<td>Operating Manual</td>
</tr>
<tr>
<td>Size AA (R6) Batteries for Remote (2)</td>
<td>RMT-DS51 Wireless Remote Commander</td>
</tr>
</tbody>
</table>

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1. [Recommended remote control unit: DSRM-20](#)
2. [Recommended remote control unit: DSRM-20](#)
3. [Recommended remote control unit: DSRM-20](#)
4. [Recommended remote control unit: DSRM-20](#)
### Specuations (PAL Models)

**DSR-70AP** Portable Editing Recorder

#### General
- **Power requirements**: 12 V DC
- **Power consumption**: 36 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)
- **Operating humidity**: Less than 80%
- **Storage humidity**: Less than 90%
- **Tape speed**: Approx. 28.2 mm/s (DVCAM mode)

#### Video Signal Inputs
- **Dimensions (W x H x D)**: 247 x 92.5 x 311 mm (9 3/4 x 3 3/4 x 12 1/4 inches)
- **Tape speed**: Approx. 28.2 mm/s (DVCAM mode)
- **Operating temperature**: 5 °C to 40 °C (41 °F to 104 °F)
- **Power consumption**: 15 W

#### Video Signal Outputs
- **Analog**: Composite, 1.0 Vp-p, 75 Ω, sync negative
- **Digital**: SDI (BNC x3)*3 Conforms to Serial Digital Interface (270 Mb/s), ITU-R 656
- **Component (BNC x3)*1**: Y: 1.0 Vp-p, 75 Ω, sync negative, B-Y: 0.7 Vp-p, 75 Ω (100%), R-Y: 0.7 Vp-p, 75 Ω (100%)
- **S-Video (DIN 4-pin x1)**: Y: 1.0 Vp-p, 75 Ω, sync negative, C: 0.3 Vp-p, 75 Ω (all burst levels)

#### Audio Signal Outputs
- **Analog**: Audio (CH1, CH2, or CH3, CH4): +4 dBu, 47 kΩ, unbalanced
- **D-Link (DV) (6-pin x1)**: +48 V power supply

#### Supplied Accessories
- Carrying belt
- Connector Cap (per interface)
- Operating Instructions (CD-R)
- LCD Protection Cover, Cleaning Cassette

### DSR-50P Portable Recorder

#### General
- **System**: PAL
- **DC input**: XLR 4-pin (male), +12 V
- **Power consumption**: 18 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)
- **Tape speed**: Approx. 28.2 mm/s (DVCAM mode)
- **Weight**: 3.9 kg (8 lb 9 oz), excluding battery and tape
- **Dimensions (W x H x D)**: 247 x 92.5 x 311 mm (9 3/4 x 3 3/4 x 12 1/4 inches)

#### Video
- **Recording mode**: UY/CMAM UV (SP mode only)
- **Playback mode**: UY/CMAM UV (SP mode only)

#### Audio
- **Recording mode**: 48.0 kHz/16-bit (2CH), 32.0 kHz/12-bit (4CH) (automatic DV IN)
- **Playback mode**: 48.0 kHz/16-bit (2CH), 32.0 kHz/12-bit (4CH) (automatic DV IN)

#### Input/Output Terminals
- **Video IN**: Composite: Y: 1.0 Vp-p, 75 Ω, sync negative, C: 0.3 Vp-p (subcarrier burst) 75 Ω
- **S-Video (DIN 4-pin)**: Y: 1.0 Vp-p, 75 Ω, sync negative, C: 0.3 Vp-p (subcarrier burst) 75 Ω

### Video Signal Inputs
- **Analog**: 0.3 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 (100%), R-Y: 0.7 Vp-p, 75 Ω (100%)
- **S-Video (DIN 4-pin x1)**: Y: 1.0 Vp-p, 75 Ω, sync negative, C: 0.3 Vp-p, 75 Ω (all burst levels)

### Audio Signal Outputs
- **Analog**: Audio (CH1, CH2, or CH3, CH4): +4 dBu, 47 kΩ, unbalanced
- **D-Link (DV) (6-pin x1)**: +48 V power supply

### Supplied Accessories
- Carryin belt
- Connector Cap (per interface)
- Operating Instructions (CD-R)
Specifications (PAL Models)

**DSR-V10P**
DVCam Video Walkman Recorder

### General
- Power requirements: AC 100 V to 240 V, 50/60 Hz
- Power consumption: 60 W
- Frequency response: 20 Hz to 20 kHz ±1.0 dB
- Audio Performance
  - Y/C delay: Less than 30 ns
  - K-factor (K2T, KPB): Less than 2.0%

### Video Performance
- SDI (BNC x 1) Conforms to Serial Digital Interface (270 Mb/s), ITU-R BT.656
- Component (BNC x 3) Y: 1.0 Vp-p, 75Ω loop-through connection
- REF. Video (BNC x 2) 0.3 Vp-p, 75Ω

### Audio Performance
- Video signal: Recording: 48 kHz/16-bit, 32 kHz/24-bit, Playback: 48 kHz/16-bit, 32 kHz/24-bit, 22.05 kHz/48-bit, 44.1 kHz/16-bit
- Audio signal output: (PIN Jack x 1) stereo LR

### Other
- 1 LINK (DV): 4-pin x1, IEEE1394
- LANC: Stereo mini-jack x1
- Headphone: Stereo mini-jack x1
- Multi connector: 3.5mm x1

### Supplied Accessories
- AC-240V, AC-Adaptor/Charger
- DK-410DK Cable
- Carrying belt
- Operating Instructions

**DSRM-E1P (Edit Adaptor for DSR-V10P)**

### General
- Power requirements: DC 7.2 V (supplied from DSR-V10P), DC 8.4 V (with AC Adaptor)
- Power consumption: Approx. 1.8 W
- Power requirements: DC 7.2 V (with battery), DC 8.4 V (with AC adaptor)

### Video Performance
- SD (BNC x 2) Y: 1.0 Vp-p, 75Ω
- Video (Pin Jack x 1) Composite, 1.0 Vp-p, 75Ω

### Audio Performance
- Audio input/output: 1 LINK (DV): 4-pin x1, IEEE1394
- Audio input/output: 1 LINK cable (4-pin to 4-pin)
- Remote controller: RM-LG2
- Battery: CR2032

### Supplied Accessories
- Warranty card
- Operation manual
- Operation instructions

**DSR-DU1**
Video Disk Unit

### General
- Power requirements: AC 100 V to 240 V, 50/60 Hz
- Power consumption: 30 W
- Frequency response: 20 Hz to 20 kHz ±0.5 dB
- Audio Performance
  - Dynamic range: More than 80 dB
  - K-factor (K2T, KPB): Less than 2.0%
  - THD+N: Less than 0.05% (148.8 kHz)

### Video Signal Inputs
- HDMI (BNC x 1)
  - HDMI: 20 Hz to 14.5 kHz ±1.0 dB

### Digital Audio Input
- HDMI (BNC x 1)
  - HDMI: 20 Hz to 14.5 kHz ±1.0 dB

### Audio Signal Inputs
- Digital Audio Input: 32 kHz/16-bit, 48 kHz/16-bit, 48 kHz/24-bit

### Analog Input
- Balanced: 1 LINK cable (4-pin to 4-pin)

### Analog Audio Input
- Audio Input: 1 LINK cable (4-pin to 4-pin)
  - USB: 100 Base-T Ethernet, RJ-45 modular jack

### Audio Signal Outputs
- Digital Audio Output: 32 kHz/16-bit, 48 kHz/16-bit

### Analog Output
- Balanced: 1 LINK cable (4-pin to 4-pin)
  - USB: 100 Base-T Ethernet, RJ-45 modular jack

### Supplied Accessories
- AC power cord x1, REM-D2 (Remote Control Unit) x1, Operation manual (CD-ROM) x1, Warranty card x1