



3CCD Digital Camcorder

With the DSR-250P, a wide range of features and functions enables you to capture the professional images you require. The lightweight, shoulder-mount design, 1.5-inch B/W viewfinder and familiar control placement make operating the DSR-250P a pleasure. A variety of additional features, including a swing-out 2.5-inch LCD monitor, Super SteadyShot™ motion compensation function, an i.LINK™ interface and Memory Stick™ support are incorporated, thus adding to the camcorder's versatility.

Three newly developed 1/3-inch CCDs and a 12-times zoom lens capture sharp, clear images. The DSR-250P supports both standard and mini-size cassettes, as well as both DVCAM™ and DV recording and playback, providing even more flexibility to meet your individual shooting requirements.

Camera Features

Newly Developed 3CCD Camera System

The DSR-250P incorporates three 1/3-inch CCDs with 450,000 pixels (effective 400,000 pixels). The camcorder has 530 lines of horizontal resolution, allowing you to capture your subject in tremendous detail. The 1/3-inch size also contributes to the high sensitivity and signal-to-noise ratio. These CCDs are capable of both interlace scan, for moving images, and progressive scan, for still images or shooting a moving subject* and exporting a frame of the image as a still picture to a PC.

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

New 12x Zoom Lens/Optical Super SteadyShot

This newly developed 12x lens* with a 58 mm filter diameter allows the DSR-250P to achieve high picture quality as a 1/3-inch CCD camcorder. The DSR-250P also employs the Super SteadyShot system. Horizontal and vertical movements are detected independently by sensors. The prism system, located in the front of the lens, adjusts and optically compensates for unsteadiness, while maintaining high image quality.

* Digital zoom of 24x or 48x can be achieved by proper menu selection.

1.5-inch Black & White CRT Viewfinder and Supplied Directional Microphone

The DSR-250P incorporates the new DXF-801 1.5-inch Black/White viewfinder for greater resolution. This durable, yet lightweight viewfinder enables easier manual focussing with its high resolution. A directional microphone is supplied with the DSR-250P.

Recording Features

DVCAM/DV Recording

The DSR-250P uses the DVCAM format to offer professional video and audio quality as well as high reliability. For professional editing, an audio lock mode is used to synchronise the audio and video. It is also capable of recording and playing back DV format tapes (SP mode only)*.

* 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.

XLR Audio Inputs

In addition to the front XLR input, the DSR-250P comes with two XLR audio input connectors for connecting professional microphones. The input can be selected from LINE/MIC/MIC with +48 V power supply.

Standard and Mini Cassette Compatibility

The VTR portion of the DSR-250P is designed to accommodate both DVCAM and DV format standard and mini-size cassette tapes. This allows you to record up to 184 minutes with a standard-size DVCAM cassette and the freedom to record on any size DV cassette.

16-bit/12-bit PCM Digital Sound and Audio Dub Capability

The DSR-250P records two channels of audio with the 48 kHz/16-bit or 32 kHz/12-bit mode. On a pre-recorded tape with two channels recorded in the 32 kHz/12-bit mode, it can dub an additional two channels through the external mic input (XLR connectors or RCA pin jacks, DVCAM recorded tape only).



DSR-250P 3CCD Digital Camcorder



Operational Features

Manual Functions

In addition to fully automatic operation, the DSR-250P has various functions that can be manually adjusted.

- **Zoom**
- **Focus** (switchable to full-auto)
- **Iris** (w/ring)
- **Shutter speed**
- **Gain**
- **AE (Auto Exposure) Shift**
- **White Balance**
- **Custom Preset** (Color Level, Sharpness, White Balance Shift, AGC Limit)
- **ND Filters** ($\frac{1}{4}$ and $\frac{1}{32}$)
- **Spotlight Button**
- **Backlight Button**
- **Digital Effects** (Still, Flash Motion, Luminance Key, Trail, Old Movie)
- **Audio Recording Level**
- **Zebra Patterns** (100% or 70%)
- **Guide Frame** (Vertical and Horizontal alignment of the subject to guide frame)

200,000 dot LCD Monitor

The DSR-250P has a high-resolution color LCD monitor for viewing the image being recorded, or checking playback on location. The large LCD is helpful for setting the menu or audio recording level, as well as monitoring the camera and audio status while mounted on a tripod.

Digital Program Editing

The DSR-250P is equipped with an i.LINK interface. The i.LINK cable transmits both input and output signals, allowing the DSR-250P to serve as an edit player or recorder, if necessary. With the i.LINK connection, the DSR-250P can control a connected VCR for synchronised recording (REC, REC PAUSE and STOP).

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

 is the logo for products that implement i.LINK.

DC Power Supply

The DSR-250P is equipped with light output (DC 12 V, max. 30 W), as well as another external DC 12 V out for a variety of optional accessories.

Index Marking

An Index can be marked while recording with the camera or recording from an external video source.

Time Code Preset

The time code can be preset in H/M/S/F. The time code mode can be selected between "rec-run" or "free run." User bits can also be set for storage of time and alphanumeric data.

Title Function

When using a cassette with Cassette Memory, the titles can be set and recorded in the Cassette Memory. This information is not superimposed on the video signal, but is displayed during playback. It can be used as an index later. The DSR-250P also has a Tape Title function that displays a title on the tape during the first five seconds of recording.

Fader

There are five fading modes: Black Fade (IN/OUT), Monotone Fade (fade from Black & White to color), Overlap (last image becomes a still image and overlaps into the new scene), Wipe and Dot.

Digital Still Camera Functions with Memory Stick

A Memory Stick can be directly inserted into the DSR-250P, providing a wide range of added functions including Memory Photo for taking still photos* and Memory Mix for combining still images with video images.

* Approximately 2,000 still images can be stored on the optional 128 MB Memory Stick. 



Lithium-ion Battery System

The DSR-250P incorporates the Lithium-ion battery system. The power consumption of the DSR-250P is only 10.5 W (with viewfinder). Recording time can be extended to a maximum of approximately ten hours with an optional BP-M100 battery.

Other Functions

- **Date Stamping** (Superimpose date onto image, selected by menu)
- **Interval Recording**
- **AV to DV Out** (Convert analogue input signals to DV signals)
- **Auto Drum Stop** (Release tape from drum after five minutes of inactivity)
- **16:9 Recording Mode** (Electronically processed)
- **DC Input** (XLR 4-pin type)



Connector panel (rear side)



Control panel (left side)

DSR-250P Specifications

| | |
|------------------------|---|
| Lens | 12:1 Variable Speed (1.2-22sec) zoom lens |
| Focus | F = 6.0 to 72.0 mm; F1.6 to 2.4; Filter Diameter 58 mm Auto/Manual (ring) / Infinity / One-push auto |
| Imaging device | Three 1/3-inch CCDs, 450,000 pixels Progressive / Interlace Scan |
| White balance | Auto / One-push / Outdoor (5800 K) / Indoor (3200 K) |
| Shutter speed | 1/3, 1/6, 1/12, 1/25, 1/50, 1/60, 1/100, 1/120, 1/150, 1/215, 1/300, 1/425, 1/600, 1/1000, 1/1250, 1/1750, 1/2500, 1/3500, 1/6000, 1/10000 second |
| Exposure | Auto / Manual |
| Minimum illumination | 2 lx |
| Horizontal resolution | 530 TV lines |
| Viewfinder | 1.5-inch Black & White CRT, Zebra Pattern (DXF-801) |
| Audio signal | |
| Rec | 48 kHz/16-bit, 32 kHz/12-bit |
| Playback | 48 kHz / 16-bit, 32 kHz / 12-bit, 32 kHz / 16-bit, 44.1 kHz/16-bit |
| Built-in speaker | Dynamic Speaker |
| LCD | TFT Active Matrix, 2.5-inch, 200, 640 dots (880 x 228) |
| Tape speed | Approx. 28.2 mm/sec (DVCAM mode) Approx. 18.8 mm/sec (DV SP mode) |
| Maximum recording time | 184 minutes (DVCAM mode) / 270 minutes (DV SP mode) with PDV-184ME cassette ; 40 minutes (DVCAM mode) / 60 minutes (DV SP mode) with PDVM-40ME cassette |
| Video signal | CCIR Standard, PAL color system |
| Connectors | |
| Video IN/OUT | RCA pin x 1 Luminance signal: 1 Vp-p 75 Ω, unbalanced, sync negative |
| Video OUT | BNC pin x 1 Luminance signal : 1 Vp-p 75 Ω, unbalanced, sync negative |
| Audio IN/OUT | RCA pin x 2 245 mV Output impedance with less than 2.2 kΩ Input impedance with more than 47 kΩ |
| S-Video IN/OUT | Mini-DIN 4pin x 1 Luminance signal: 1 Vp-p, 75 Ω, unbalanced Chrominance signal: 0.3 Vp-p |
| Audio IN | XLR 3-pin (female) x 3, -60 dBu, 6.8 kΩ, +4 dBu, 6.8 kΩ (0 dBu = 0.775 V rms) |
| DV IN/OUT | 6-PIN (with lock) |
| LANC | Stereo mini jack (0.25 mm) x 1 |
| Headphone | Stereo mini jack (0.35 mm) x 1 |
| External DC IN | 12 V, XLR 4-pin (male) |
| DC OUT for light | 12 V, max. 30 W |
| DC OUT | 12 V, 4 pin |
| Operating temperature | 0 to 40 °C (32 to 104 °F) |
| Storage temperature | -20 to 60 °C (-4 to 140 °F) |
| Power requirements | DC 12 V (11 to 17V) |
| Power consumption | 10.5 W using the viewfinder 12.1 W using the viewfinder and LCD monitor |
| Dimensions (W x H x D) | 241.7 x 251.2 x 508.8 mm (9 5/8 x 10 x 20 1/8 inches) Including microphone |
| Mass (camcorder only) | Approx. 4.4 kg (9 lb 11 oz) |
| Supplied accessories | <ul style="list-style-type: none"> ■ ECM-NV1 Monaural Microphone ■ RMT-811 Remote Commander and R6 Batteries (x 2) ■ Driver software included) ■ Picture Gear 4.1 Lite ■ Lens Hood ■ Hood Cap |

DVCAM Silver Support Pack

Silver Support

The DVCAM line is backed by the Sony professional service infrastructure. Professional customers need professional service and support. As a result, Sony offers you an enhanced support services for DVCAM products. DVCAM products are supplied as standard with a two year Silver Support Pack, in addition to warranty, as standard. This means unique extra services for twice as long including:

- **2 YEARS SUPPORT**
Silver Support extends the support period given in Standard Warranty from 1 to 2 years.
- **OPERATIONAL HELPDESK**
The helpdesk provides operational advice so that you can get the most out of your DVCAM equipment and maximise its performance.
- **REPAIR WITHIN 7 DAYS**
Sony will collect, repair and return the unit to your preferred location within 7 working days.
- **LOAN**
If the repair is likely to exceed 7 working days, Sony will provide a loan unit for the remaining duration of the repair.
- **COLLECTION ANYWHERE**
Sony will arrange collection of the faulty unit directly from and deliver directly to your location – anywhere in mainland EU, Norway or Switzerland.

Optional Accessories

BP-GL65
Lithium-ion Battery

BP-GL95
Lithium-ion Battery

BP-M50/M100
Nickel Metal Hydride Battery

BC-M50
Battery Charger

BC-M150
Battery Charger

AC-DN2B
AC Adaptor

VCL-HG1758
Tele Conversion Lens 1.7x

VCL-HG0758
Wide Conversion Lens 0.7x

VF-58PK
Filter Kit PL Filter and Multi-coat Filter

VMC-IL4615/4635
i.LINK Cable (4-pin to 6-pin)

VMC-IL6615/6635
i.LINK Cable (6-pin to 6-pin)

CCFD-3L
i.LINK Cable (4-pin to 6-pin with lock)

CCF-3L
i.LINK Cable (6-pin to 6-pin with lock)

MSA-8A/16A/32A/64A/128A
IC Recording Media Memory Stick

MSAC-PC2
PC Card Adaptor for Memory Stick

MSAC-FD2M
Floppy Disc Adaptor for Memory Stick

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CA DSR-250P/GB- / /2004

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