NTSC/PAL | 3CCD Digital Camcorder

SONY

DVCAM™

DSR-PD150
DSR-PD150P

For Professional Results

A “handy” addition to the DVCAM camcorder family – the DSR-PD150

With the DSR-PD150*, a wide range of features and functions ensures that you acquire the professional pictures and sound you need. Three newly developed 1/3-inch CCDs capture clear images. The **Memory Stick™** function adds versatility and convenience with still photos and simple in-camera editing using the Memory Mix functions, while an i.LINK™ interface simplifies data transfer and digital editing. With all of these features and a compact body, the DSR-PD150 offers you a "handy" alternative for professional shooting in a wide range of applications.

* Two models of the DSR-PD150 are available: the DSR-PD150 for NTSC and the DSR-PD150P for PAL.

DSR-PD150

Camera Features

The Professional Picture Quality You Demand

Newly Developed 3CCD Camera System

The DSR-PD150 incorporates three 1/3-inch CCDs with 380,000 pixels (effective 340,000 pixels), while the DSR-PD150P incorporates three 1/3-inch CCDs with 450,000 pixels (effective 400,000 pixels). The 1/3-inch size 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 1/15 second (DSR-PD150) or 1/12.5 second (DSR-PD150P).

New 12x Zoom Lens

This newly developed 12x lens* with a 58 mm filter diameter allows the DSR-PD150 to achieve high picture quality as a 1/3-inch CCD camcorder. The camcorder has 530 lines of horizontal resolution, allowing you to capture your subject in greater detail.

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

Optical Super SteadyShot™

The DSR-PD150 employs the Super SteadyShot system in which the horizontal and vertical movements are detected independently by the sensors. The prism system located in the front of the lens adjusts and optically compensates for unsteadiness, while maintaining image quality.

180,000 dot LCD Precision Black & White Viewfinder

The 0.4 type black and white LCD viewfinder provides 500 lines of horizontal resolution - more than 20% greater than current color viewfinders. This enables easier manual focussing.

Recording Features

High Quality Digital Recording

DVCAM/DV Recording

The DSR-PD150 adopts the DVCAM format to offer professional video and audio quality as well as high reliability. For professional audio editing, an audio lock mode is used. 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.

2 ch XLR Audio Input and Supplied Directional Microphone

The DSR-PD150 comes with two XLR audio input connectors for connecting professional microphones. The input level can be selected from Mic/Line/Mic Attenuator positions. 48 V DC power can be supplied. INPUT 1 audio can be recorded on either CH1, or CH1 and CH2 audio tracks (selected by switch). One directional microphone is supplied with the unit.

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

The DSR-PD150 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).

Operational Features

Convenient Features for Professional Results

200,000 dot LCD Monitor

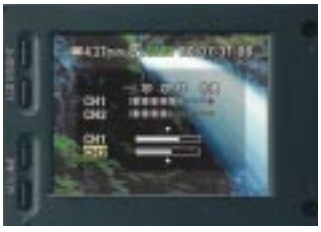
The DSR-PD150 has a high-resolution color LCD monitor for viewing the recording picture, or checking the playback picture on location. With its large screen, it is helpful in setting the menu or audio recording level, as well as monitoring the camera and audio status while mounted on a tripod.

* Simulated picture

Manual Functions

In addition to the automatic functions, the DSR-PD150 has various functions for manual adjustment.

- Zoom
- Focus
- Iris
- Shutter speed
- Gain
- AE (Auto Exposure) Shift
- White Balance
- Custom Preset
  (Color Level, Sharpness, White Balance Shift, AGC Limit)
- ND Filters (1/4 and 1/32)
- Spotlight Button
- Backlight Button
- Digital Effects
  (Still, Flash Motion, Luminance Key, Trail, Old Movie)
- Audio Recording Level
  (Separate or Linked adjustment of CH1 and CH2)



- Zebra Patterns (100% or 70%)
- Guide Frame
  (Vertical and Horizontal alignment of the subject to guide frame)

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 using any number in H/M/S/F, which will be one of the methods to number a tape. The time code mode can be selected between "rec-run" or "free run." User bits can also be set.

Long Recording Time

The power consumption of the DSR-PD150 is only 4.7 W (with viewfinder). Combined with the optional NP-F960 InfoLITHIUM™ battery pack, it can record for up to eight hours.

Continuous Recording Time*	With Viewfinder	With LCD Monitor
NP-F330 (supplied)	60 min.	50 min.
NP-F550 (optional)	130 min.	110 min.
NP-F750 (optional)	265 min.	230 min.
NP-F960 (optional)	480 min.	420 min.

* Continuous recording time, indoors at 25°C.

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-PD150 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**

MEMORY STICK

A Memory Stick can be directly inserted into the DSR-PD150, providing a wide range of added functions.

■ Memory Photo: The camera is switched to the progressive scan mode for capturing still images. VGA-sized JPEG files are recorded on the Memory Stick in one of three image quality modes.

Image Quality Mode	Super Fine	Fine	Standard
Compression ratio	1/3	1/6	1/10
4MB type (supplied)	20 images	40 images	60 images
8MB type (optional)	40 images	81 images	122 images
16MB type (optional)	82 images	164 images	246 images
32MB type (optional)	164 images	329 images	494 images
64MB type (optional)	329 images	659 images	988 images

■ Memory Mix*: Using these functions, images stored on a Memory Stick can be combined with camera images.

- M. CHROM (Memory Chromakey): The blue area of a still image on the Memory Stick can be replaced with a picture from the camera.

- M. LUMI (Memory Luminancekey): The bright part of a still image on the Memory Stick can be replaced by an image from the camera.
- C. CHROM (Camera Chromakey): A moving picture from the camera can be superimposed on a still image from the Memory Stick. When shooting a picture with a blue background, the area of the moving picture will be taken out and the still picture will be shown.
- M. Overlap (Memory Overlap): The still image on the Memory Stick can be faded into a moving picture.

* Picture Gear 4.1 LITE (supplied) or higher is recommended when using Memory Mix functions.

Digital Program Editing

The DSR-PD150 can edit a tape using the i.LINK interface. After connecting the camcorder to a Sony VCR via an i.LINK cable and setting IN and OUT points for up to 20 programs, the camcorder and VCR will automatically edit the selected portions. The camera controls the VCR through the AVC (Audio/Video Control) of the i.LINK interface. The accuracy of editing is within five frames.

* i.LINK stands for IEEE 1394-1995 standards and their revisions.
i is the logo for products that implement i.LINK.

InfoLITHIUM Battery System

The DSR-PD150 incorporates the InfoLITHIUM battery system. An IC chip is included in the battery and transmits the remaining capacity of the battery, accurate to the minute, to the camcorder.

Note: The camcorder will not function when non-InfoLITHIUM batteries such as NP-710/NP-720 are attached.

Battery Charging Function

The DSR-PD150 has a built-in battery charging function that will automatically charge the battery when the supplied AC-L10 cord is connected. The charging status will appear on the camcorder LCD indicator, reflecting the recording time possible with the battery's current charge.

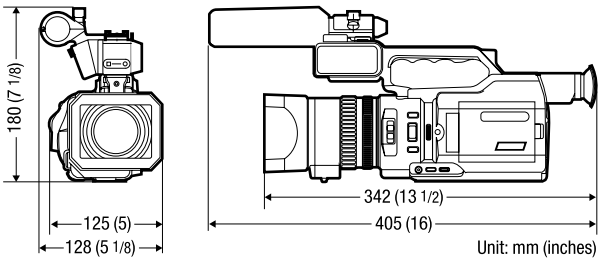
Note: Battery charging can also be done with the optional AC-VQ800.

Other Functions

- **Date Stamping** (Superimpose date onto image, selected by menu)
- **Interval Recording**
- **AV to DV Out** (Convert analog input signals to DV signals)
- **16:9 Recording Mode** (Electronically processed)

DSR-PD150/PD150P Specifications

Lens		12:1 Variable Speed (1.2-22 sec) zoom lens
		F =6.0 to 72.0 mm; F1.6 to 2.4; Filter Diameter 58 mm
Focus		Auto/Manual (ring)/Infinity/One push auto
Imaging Device		Three 1/3-inch CCDs, 380,000 pixels (gross: NTSC)/
		450,000 pixels (gross: PAL), Progressive/Interlace Scan
White Balance		Auto/One-push/Outdoor (5800 K)/Indoor (3200 K)
Shutter Speed		1/4, 1/8, 1/15, 1/30, 1/60, 1/90, 1/100, 1/125, 1/180,
		1/250, 1/350, 1/500,1/725, 1/1000, 1/1500, 1/2000,
		1/3000, 1/4000, 1/6000,1/10000 second (NTSC)
		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 (PAL)
Exposure		Auto/Manual
Minimum Illumination		2 lx
Horizontal Resolution		530 TV lines
Viewfinder		180,000 dot Black & White LCD, Zebra Pattern
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		40 minutes (DVCAM mode)
		60 minutes (DV SP mode, with PDVM-40ME)
Video Signal		EIA Standard, NTSC color system (DSR-PD150)
		CCIR Standard, PAL color system (DSR-PD150P)



Unit: mm (inches)

Connectors		
	Video IN/OUT	RCA pin x 1
		Luminance signal: 1 Vp-p
		75 Ω, unbalanced, sync negative
	Audio IN/OUT	RCA pin x 2
		327 mV
		Output impedance with less than 2.2 kΩ
		Input impedance with more than 47 kΩ
	S-Video IN/OUT	Mini-DIN 4 pin x 1
		Luminance signal: 1 Vp-p, 75 Ω, unbalanced
		Chrominance signal: 0.286 Vp-p (NTSC), 0.3 Vp-p (PAL)
	Audio IN	XLR 3-pin female, x 2 -60 dBu, 3 kΩ, +4 dBu,
		10 kΩ (0 dBu = 0.775 V rms)
		i.LINK (DV IN/OUT): 4-pin x 1
		LANC: Stereo mini jack (0.25 mm) x 1
		Headphone: Stereo mini jack (0.35 mm) x 1
		External DC IN: 8.4 V for AC-L10 AC adaptor
Operating Temperature		0 to 40 °C (32 to 104 °F)
Storage Temperature		-20 to 60 °C (-4 to 140 °F)
Power Requirements		DC 7.2 V (Battery), DC 8.4 V (AC adaptor)
Power Consumption		4.7 W using the viewfinder, 5.4 W using the LCD monitor
Dimensions (W x H x D)		125 x 180 x 342 mm (5 x 7 1/8 x 13 1/2 inches)
		128 x 180 x 405 mm (5 1/8 x 7 1/8 x 16 inches) including microphone
Mass (camcorder only)		Approx. 1.5 kg (3 lb 5 oz)
Supplied Accessories		ECM-NV1 Monaural Microphone
		AC-L10 AC Adaptor
		NP-F330 InfoLITHIUM Rechargeable Battery Pack
		RMT-811 Remote Commander and R6 Batteries (x2)
		MSA-4A IC Recording Media **Memory Stick**
		MSAC-US1 **Memory Stick** Reader/Writer (USB terminal adaptor for **Memory Stick**. Driver software included)
		Picture Gear 4.1 Lite
		Stereo AV Cable
		Lens Hood
		Hood Cap
		Carrying Belt

MSAC-US1

Optional Accessories

Some of the following accessories may not be available in certain countries. For details, please contact your nearest Sony office.

NP-F550/NP-F750/ NP-F960
InfoLITHIUM Rechargeable Battery Pack

AC-VQ800
Battery Charger

VCL-HG1758
Tele Conversion Lens 1.7x

VCL-HG0758
Wide Conversion Lens 0.7x

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

VCT-1170RM
Video Tripod with Remote Control

LCH-VX2000
Hard Carrying Case for
DSR-PD150/PD150P

VMC-IL4408/4415/4435
(4-pin to 4-pin)
VMC-IL4615/4635
(4-pin to 6-pin)
i.LINK Cable

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

MSA-4A/8A/16A/32A/64A
IC Recording Media Memory Stick

MSAC-PC2
PC Card Adaptor for
Memory Stick

MSAC-FD2M
Floppy Disc Adaptor for Memory Stick

WRT-805A
UHF Synthesized Wireless Transmitter

WRR-805A
UHF Synthesized Portable Tuner

(K-1334 BMP-XLR Conversion Cable is required for mounting.)

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Cover includes simulated picture.

Features and specifications are subject to change without notice.
All non-metric weights and measures are approximate.
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