

SONY®

PAL

Digital Camcorder
DSR-PD100AP

i **DVCAM**™



*Simulated Picture

The Sony DSR-PD100AP Handycam® Digital Camcorder is a new addition to the ever-growing DVCAM™ product line-up. Within its compact and stylish body, it boasts a newly developed 3CCD-imaging device which provides excellent picture quality, and a new function – still image recording on removable memory media. With these features, the DSR-PD100AP offers new opportunities for a variety of professional video applications.



Features

Camera Features – One of The Best Performers in its Class

■ **Excellent Picture Quality**

The DSR-PD100AP has three 1/4-inch CCD sensors, each with 450,000 pixels (effective 400,000 pixels). This newly developed 3CCD system is designed to complement the DVCAM recording format, with excellent picture quality for this class of camcorder.

■ **DSP (Digital Signal Processing)**

The DSR-PD100AP incorporates 10-bit full digital signal processing from the camera to the recorder. This technology offers high stability, reliability and picture quality.

■ **Progressive/ Interlace Scan Switchable CCDs**

The CCDs in the DSR-PD100AP can be switched to scan in two ways: Interlace Scan for capturing moving images and Progressive Scan for capturing still images. The DSR-PD100AP can be used as a digital still camera as well as for shooting footage.

■ **Super SteadyShot®**

This is a new optical system that compensates for unwanted camera movement without reducing image quality.

■ **High Zoom Ratio**

A built-in 12 x zoom lens is supplemented by a 48 x digital zoom function that can provide extreme close-up shots.

■ **Manual Control and Full Range Auto Modes**

The DSR-PD100AP offers manual control of modes such as focus, gain, white balance, shutter speed and others. Auto modes are also included for quick operation.

■ **Switchable 4:3 and 16:9 Recording Modes**

Although the DSR-PD100AP incorporates a 4:3 image sensor, it is capable of capturing 16:9 aspect ratio images by processing them digitally.

VTR Features – Powerful Digital Recording for Professional Production

■ **DVCAM Format**

The DSR-PD100AP records in the DVCAM format to offer superb video and audio quality, and reliability for professional use.

■ **i.LINK™ (DV IN/OUT) Interface**

The built-in i.LINK interface provides a single cable connection to transfer digital video and audio with virtually no generation loss.

■ **16-bit / 12-bit PCM Audio Stereo**

The DSR-PD100AP is capable of PCM digital recording of stereo sound in both 48 kHz mode (16-bit) and 32 kHz mode (12-bit).

■ **Audio Dubbing Capability**

When a recording has been made in 12-bit mode, another stereo channel can be added later.



Camcorder Operation – Convenient Features and a Variety of Accessories



■ Compact and Lightweight

The DSR-PD100AP is a highly portable camcorder, which weighs just 1 kg (2.2 lbs) with a battery and a tape. A magnesium alloy die cast body keeps it light but robust. This mobility is a major asset in the field of professional acquisition.

■ Still Image Recording

With progressive scan CCDs, the DSR-PD100AP can record high quality still images on both tape and removable memory media.

1) Tape Photo Mode

The still images scanned in interlace or progressive scan mode can be recorded on tape.

2) Memory Photo Mode

The still images scanned in progressive scan mode are recorded onto removable memory media. Depending on the subject, you can select picture quality from three modes: Super Fine (SFN), Fine (FIN) or Standard (STD).

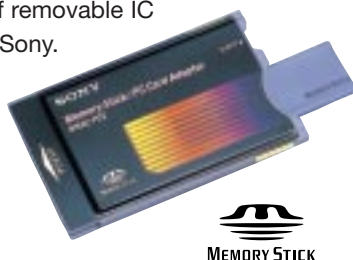
Mode	Super Fine	Fine	Standard
Number of storable images	19~23	38~45	63~75
Compression ratio	1/4	1/6	1/10

* (with the 4 MB Memory Stick)

3) “Memory Stick”™ Media and PC Card Adaptor

There is a memory card slot at the rear of the unit. This accepts a PC card (ATA/type2)* or a **Memory Stick****. The **Memory Stick** is a compact, thin and highly reliable type of removable IC memory media from Sony.

It can be employed in the same way as a PC card when used with the **Memory Stick/PC Card Adaptor****.



■ Colour 3.5-inch LCD Monitor

The DSR-PD100AP has a large 3.5-inch colour LCD monitor with 184,000 pixels, which offers opening 90 degrees to the side and swivels 180 degrees.

This allows the user to shoot objects in low and high angle conditions while continuing to monitor the picture.

The LCD is also useful for viewing a recorded tape.



■ InfoLITHIUM™ Battery

The InfoLITHIUM battery system is incorporated in the DSR-PD100AP. The supplied NP-F330 and optional NP-F950/B batteries communicate with the camcorder so that the DSR-PD100AP can indicate the remaining battery capacity within one minute of accuracy on the large LCD monitor or the viewfinder.

■ RMT-811 Wireless Remote Commander

The Start/Stop/Zoom functions of the camcorder and VTR operation, plus slow playback and search can be controlled by the supplied RMT-811 Wireless Remote Commander.



■ XLR Adaptor

The supplied XLR adaptor attaches onto the Intelligent accessory shoe of the camcorder, allowing external professional microphones to be connected.

DC power (+48V) for a microphone is supplied from the DSR-PD100AP through this adaptor. On the XLR adaptor, the GAIN switch is incorporated to deal with the low-level input, like sounds from a dynamic microphone.

■ Wide Angle Conversion Lens

A 0.7 x wide conversion lens is supplied, complete with lens hood and lens cap.

■ Long Recording Time

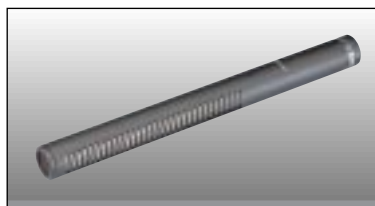
Thanks to low power consumption, the DSR-PD100AP 3CCD Camcorder can record for up to approximately 7.5 hours.

Continuous Recording Time	With LCD OFF	With LCD ON
NP-F330 (supplied)	70 min	55 min
NP-F950/B (option)	465 min	365 min

* PC card is not supplied.

** The 4 MB Memory Stick and the Memory Stick/PC Card Adaptor are both supplied.

Optional Accessories



Electret Condenser Microphone
ECM-670



Microphone Holder
CAC-12



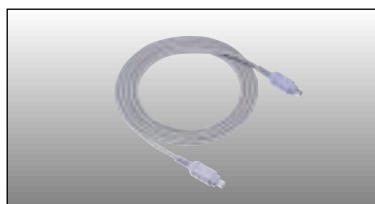
Microphone Cable
EC-0.3C2
EC-0.5C2



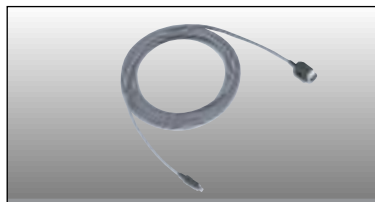
InfoLITHIUM Rechargeable Battery Pack
NP-F950/B
NP-F750
NP-F550



IC Recording Media
Memory Stick
MSA-4A (4MB)
MSA-8A (8MB)
MSA-16A (16MB)



i.LINK Cable
VMC-IL4415
(1.5m, 4pin-4pin)
VMC-IL4435
(3.5m, 4pin-4pin)
VMC-IL4615
(1.5m, 4pin-6pin)
VMC-IL4635
(3.5m, 4pin-6pin)



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

Specifications

Lens:	12:1 variable speed (1.83-26.5 sec) zoom lens f = 4.3 to 51.6 mm; F1.6 to 2.8; Filter diameter 52 mm
Focus:	Auto/Manual (ring)/Infinity
Imaging Device:	Three 1/4-inch colour CCDs, 450,000 pixels Progressive/Interlace Scan
White Balance:	Auto/One-push/Outdoor/Indoor
Shutter Speed:	1/3 to 1/10000 seconds
Exposure:	Auto/Manual (Exposure dial, Program AE)
Minimum Illumination:	4 lx
Horizontal Resolution:	500 TV lines
Viewfinder:	180,000 dot Colour 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 Microphone:	Stereo electret condenser microphone
Built-in Speaker:	Dynamic speaker
LCD:	TFT Active Matrix, 3.5-inch 184,580 pixels (839 x 220)
Tape Speed:	Approx. 28.2 mm/s (DVCAM mode)
Maximum Recording Time:	40 minutes (with PDVM-40ME)
Video Signal:	CCIR Standard, PAL colour system
Memory Card Slot:	PC Card Standard ATA specifications Type II Power Requirement: 3.3/5 V Capacity: 2 MB to 64MB* (* When formatted by DSR-PD100AP) Recording Signals: Camera signal, VTR signal Image Size: VGA (640 x 480) Image Compression: JPEG
Connectors:	Audio/Video IN/OUT*: Special AV Mini (converts to Phono) x 1 S-Video IN/OUT: Mini-DIN 4 pin x 1 MIC IN: Stereo Mini x 1 (XLR 3-pin x 1, via adaptor) i.LINK(DV IN/OUT): 4-pin x 1 LANC: Stereo mini-mini x 1 Headphone: Stereo mini x 1 External DC IN: 8.4 V (AC-L10 AC Adaptor)
Operating Temperature:	0 °C to 40 °C (32 °F to 104 °F)
Storage Temperature:	-20 °C to 60 °C (-4 °F to 140 °F)
Power Requirements:	DC 7.2 V (Battery), DC 8.4 V (AC Adaptor)
Power Consumption:	4.3 W using the viewfinder/5.3 W using the LCD
Dimensions:	93 x 112 x 193.5 mm (3 3/4 x 4 1/2 x 7 5/8 inches)
Mass:	Approx. 900 g / 1 lb 15 oz

*Picture quality by analogue input is not satisfying for professional use.

Supplied Accessories

AC-L10 AC Adaptor, NP-F330 InfoLITHIUM rechargeable battery pack, RMT-811 Remote Commander and R6 batteries (2), **Memory Stick**, **Memory Stick**/PC Card Adaptor, Special Stereo AV Cable, XLR Adaptor, Wide Conversion Lens, Lens Hood, Lens Cap, Carrying Belt, i.LINK Cable

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