

SONY®

NTSC

Digital Camcorder
DSR-200

DVCAM™



The DSR-200 is a professional digital camcorder featuring the superior picture and sound quality of the DVCAM™ format integrated into a compact, lightweight body. It allows recording up to 184 minutes with the PDV-184 ME (DVCAM Standard Cassette), and it also can play back standard size consumer DV cassettes. The magnesium diecast body of the DSR-200 has been designed to be both durable and lightweight (7 lb 15 oz or 3.6kg without a tape and a battery). The optical Steady Shot® function can be used to compensate for camcorder or operator movement. The DSR-200 also has Time Code capability required for professional accurate editing, and a DV interface based on the IEEE 1394 standard for digital signal transmission. With all these features, the DSR-200 will be the ideal choice for meeting the various demands of video journalists, event photographers, stringers and production houses.



Front View



Rear View

High Quality Recording

DVCAM Recording and Playback

The DSR-200 uses the DVCAM format to provide high video and audio quality and reliability for professional use. The 8-bit component digital recording with a 5:1 compression ratio and sampling at the rate of 4:1:1 provides superior picture quality and multi-generation performance.

DV Playback

The DSR-200 is capable of playing back standard size consumer DV format tape. (SP mode only)

184-minute Recording

Standard size DVCAM cassettes should be used for recording with the DSR-200. With the PDV-184ME (standard DVCAM cassette) it can record up to 184 minutes. With three NP-F930/B Battery Packs in the NPA-10000/B Battery Holder, continuous operation up to six hours (full charge)/ 330 minutes (normal charge) without zooming or power on/off

operation, or 225 (full charge)/210 minutes (normal charge) with zooming and power on/off operation is typical.

High Quality Audio Recording

The DSR-200 is capable of PCM (Pulse Code Modulation) digital recording of stereo sound both in the 32kHz mode (4-channel/12-bit nonlinear) and in 48kHz mode (2-channel/16-bit linear). In the 32kHz mode, the DSR-200 records audio on two channels during shooting, and another stereo channel can be added onto it. If a higher sound quality is required, equivalent to DAT, record in the 48kHz mode.

Three CCDs

The DSR-200 incorporates three 1/3-inch CCDs which contributes to the high fidelity of the DSR-200's color reproduction and the compactness. Each CCD consists of 410,000 pixels (effective 380,000 pixels).

Side View (Left)



Operational Convenience

Lightweight 10 lb 8 oz (4.7kg)

The magnesium diecast body of the DSR-200 is lightweight and very robust. The total weight of the DSR-200 with a cassette tape and the NP-10000/B Battery Holder containing three NP-F930/B Battery Packs is 10 lb 8oz or 4.7kg.

Optical Steady Shot Function

The optical Steady Shot function of the DSR-200 compensates for camcorder movement by using an active prism mechanism. Unlike compensation by frame memories, the optical Steady Shot function compensates for the movement without deterioration of image quality.

Auto/ Manual Operation

The DSR-200 offers automatic and manual control of focus, iris, gain, white balance, and shutter speed. For instant shooting, the automatic mode is very helpful. The automatic mode can be easily overridden by switching to the manual mode.

Various Shooting Modes

The DSR-200 has various shooting modes. In Photo Mode, a clear still frame picture can be recorded for seven seconds along with audio. Interval and frame by frame recording is also possible.

Easy-to-Use Viewfinder

The DSR-200 has a new 1-inch black and white viewfinder which features a high horizontal resolution of 550 TV lines.

Stereo Microphone

The DSR-200 is equipped with a one-point stereo type electret condenser microphone. The directivity can be selected from 0°, 90° and 120°.

XLR Connector for Professional Microphones

The DSR-200 has two XLR connectors (3-pin) for audio input from professional microphones and audio equipment. Microphone input or line input can be selected by a slide switch.

RMT-806 Remote Controller (Supplied)

Basic commands such as recording and playback can be done by the RMT-806 Wireless Remote Controller supplied with the DSR-200.

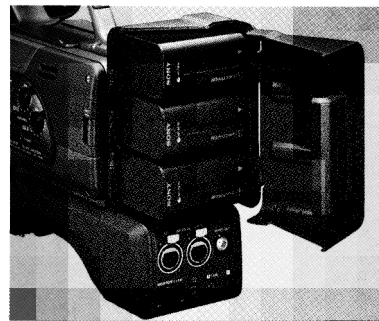


VCT-U14 Tripod Adaptor (Option)

With its V-wedge shoe, the DSR-200 can be instantly mounted on or detached from the optional VCT-U14 Tripod Adaptor designed for professional use. With the VCT-U14, the DSR-200 can be securely attached to a tripod.

NPA-10000/B (Option)

The optional NPA-10000/B holds three NP-F930/B Battery Packs. Even during shooting, an exhausted battery pack can be exchanged without interruption of any functions, if the capacity of other batteries remains intact.



Editing Features

Time Code Capability (DF/NDF)

The DSR-200 has a time code capability which allows precise editing. DF (Drop Frame) or NDF (Non Drop Frame) can be selected according to the situation. "DF" synchronizes the time code with the field frequency of the NTSC signal and "NDF" counts the time by real time. With the "TC RESET" button, the time code can be reset to "00:00:00:00".

DV IN/OUT (IEEE 1394 based)

The DSR-200 incorporates a DV IN/OUT connector based on the IEEE 1394 standard. When connected with another recorder/player with the DV IN/OUT, video/audio and data can be dubbed virtually without any deterioration of quality.

[NOTE]

The program recorded on a consumer DV tape in the DV format cannot be copied to a DVCAM cassette tape with the DSR-200 via the DV IN/OUT.

LANC Editing

The DSR-200 is equipped with a LANC interface. By connecting a LANC based recorder or editing system, simple editing is possible.



Optional Accessories



AC-V615/B
One-battery AC
Adaptor/Charger



NP-F930/B
Rechargeable Battery
Pack



NPA-10000/B
Three-battery Holder



ACC KIT-200
Consisting of three
NP-F930/Bs,
one NPA-10000/B and
one AC-V900/B



AC-V900/B
Three-battery Charger/AC
Adaptor



VCT-U14
Tripod Adaptor



ECM-672
Electret Condenser
Microphone



CAC-12
Microphone Holder



DSBK-201
Adaptor for WRR-810A
Wireless Microphone
Receiver



PDV-64ME/94ME/124ME/184ME
Digital Video Cassette <Standard Size>

Specifications

Lens

10x Zoom (f = 5.9 to 59mm)
(20x Digital Zoom)
52mm
Auto/Manual (F1.6 to 11) and Close

Image device: 3-chip 1/3-inch, Interline-Transfer CCD
Picture elements: 768 (h) x 494 (v) (effective), 811 (h) x 508 (v) (total)
Signal system: EIA standard, NTSC Color system
Scanning system: 2:1 interlaced, 525 lines, 60 fields/sec.
Gain: Auto/ Manual(-3, 0, 3, 6, 9, 12, 15, 18dB)
Shutter control: Auto/Manual(1/4, 1/8, 1/15, 1/30, 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 sec.)
White balance: ATW/One-push auto/5800K/3200K
Minimum illumination: 4 lx
Recommended illumination: More than 100 lx
Viewfinder: 1-inch black and white CRT
Built-in microphone: One-point stereo-type electret condenser microphone, directivity selectable (0°/90°/120°)
Built-in speaker: Dynamic speaker

VTR

Tape speed: Approx. 28.193 mm/sec.(DVCAM mode)
Maximum recording time: 184 minutes (with PDV-184ME)

Input/Output

DV input/output: DV type, 4-pin jack x 1 (IEEE1394)
Video output: Composite BNC connector x 1, Pin jack x 1, 1.0Vp-p, 75Ω, Sync negative
S-Video: 4-pin mini DIN connector x 1
Y: 1.0Vp-p, 75Ω, Sync negative
C: 0.286Vp-p (subcarrier burst), 75Ω
Phono jack x 1 (stereo)
XLR 3-pin x 2 (MIC/LINE selectable)
Stereo mini jack x 1
Stereo mini-jack x 1
Stereo mini jack x 1
Special mini jack x 1 (DC 5V)
4-pin for DK-715 cable
8-pin connector

Audio output:
External audio input:
External microphone input:
LANC:
Headphone jack:
RFU DC output:
External DC input:
Viewfinder interface:

General

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 requirement: DC7.2V (Battery operation)
DC8.4V (AC adaptor)
Power consumption: 11.6W (during camera recording)
Dimensions (w x h x d): 216 x 237 x 474 mm (8 5/8 x 9 3/8 x 18 3/4 inches)
Mass: Approx. 3.6kg (7 lb 15 oz) (without a tape and batteries)
Approx. 4.7kg (10 lb 8 oz)(with a tape and batteries)
and three NP-F930's in NPA-10000/B)
Supplied accessories: RMT-806 Wireless Remote Controller (x 1)
AV stereo cable (x1)
S cable (x1)
R6 batteries (x2)
Operation manual (x1)