

SONY®

NTSC

Digital Camcorder
DSR-200A

DVCAM

TM



The Sony DSR-200 Digital Camcorder is being used around the world for a variety of professional video applications. A compact and lightweight body, coupled with the superior picture quality of digital signal processing DSP and the DVCAM™ format, make it an ideal acquisition tool.

In order to meet increasing demands of the video professional, Sony is now introducing an enhanced version - DSR-200A Digital Camcorder. This camcorder incorporates many new features including a minimum illumination of 3 lx, 16:9/4:3 aspect ratio capability, OSD (On Screen Display) ON/OFF capability, Time/Date superimposition and many others. With these additional features, the DSR-200A is the ideal choice for various demands of video journalists, event videographers, stringers and production houses.

Superior Picture Quality

DSP Digital Signal Processing

The DSR-200A offers superior pictures by using 10-bit digital signal processing. DSP technology brings high stability and reliability. In addition, the digital signal is digitally transferred from the camera to the VTR without any signal degradation and minimal signal loss.

Three CCDs

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

DVCAM Recording and Playback

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

Long Recording and Operating hours

Standard size DVCAM cassettes should be used for recording with the DSR-200A. With the standard DVCAM cassette, it can record up to 184 minutes. With three Sony NP-F950 Battery Packs in the Sony NPA-10000/B Battery Holder, the unit typically achieves operation of up to 450 minutes (full charge)/ 405 minutes (normal charge) without zooming or power on/off operation, or 240 (full charge)/ 210 minutes (normal charge) with zooming and power on/off operation.

High Quality Audio Recording

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



Front View



Rear View



Side View (Left)

Operational Convenience

Lightweight 10 lb 8 oz (4.7 kg)

The magnesium diecast body of the DSR-200A is lightweight and very robust. The total weight of the DSR-200A with a cassette tape and the NP-10000/B Battery Holder containing three NP-F950 Battery Packs is 4.7 kg (10 lb 8 oz).

Non-Removable lens

The DSR-200A incorporates a non-removable lens to enhance the operational convenience. Non-removable lens allows the following functions.

* Optical Steady Shot Function

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

* Auto/ Manual Focus Operation

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

Enhanced Minimum Illumination

The DSR-200A can shoot pictures under extremely low light conditions as low as 3 lux. It allows event videographers when shooting weddings for instance to shoot clear pictures even under low light conditions as often found during church ceremonies and other dimly lit indoor events.

16:9 Aspect Ratio Capability

Although the DSR-200A incorporates a 4:3 image sensor, it is capable to capture 16:9 aspect ratio pictures by processing them digitally. It allows shooting of cinema-like 16:9 pictures, and displaying 16:9 images on monitors at full screen.

Time/date Superimposition on Video Out Pictures

The DSR-200A is capable of superimposing the time and date superimposed onto the video out signal by simply selecting the time/date superimpose mode ON/OFF by the menu.



Editing Features

Time Code Capability (DF/NDF)

The DSR-200A 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".

i.LINK interface (IEEE 1394-based)

The DSR-200A incorporates an i.LINK (DV IN/OUT) connector based on the IEEE 1394 standard. When connected with another recorder/player via i.LINK interface. Video/audio and data can be digitally dubbed virtually without any deterioration of quality.



LANC Editing

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

Other Features

Photo mode

XLR connector for professional microphones
Stereo microphone



VCT-U14 Tripod Adaptor (Option)

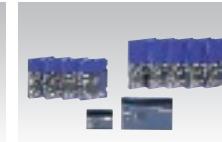
With its V-wedge shoe, the DSR-200A can be instantly mounted on or detached from the optional Sony VCT-U14 Tripod Adaptor designed for professional use. With the VCT-U14, the DSR-200A can be securely attached to a tripod.

NPA-10000/B (Option)

The optional NPA-10000/B holds three NP-F950 Battery Packs. Even during shooting, an exhausted battery pack can be exchanged without interrupting any functions, if the capacity of other batteries remains intact.

Side View (Right)

Optional Accessories

					
AC-V615/B One-battery AC Adaptor/Charger	NP-F950 Rechargeable Battery Pack	NPA-10000/B Three-battery Holder	ACC KIT-201 Consisting of three NP-F950, 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	PDVM-12ME/22ME/32ME/40ME Digital Video Cassette (Mini size)	PDVM-32N/40N Digital Video Cassette (Non IC type) (Mini size)	PDV-34ME/64ME/94ME/124ME/184ME Digital Video Cassette (Standard size)
PDV-64N/124N/184N Digital Video Cassette (Non IC type) (Standard size)					

Specifications

LENS

Zoom:	10 x Zoom (f = 5.9 to 59 mm) (20 x Digital Zoom)
Filter diameter:	52 mm

Iris:
Auto/Manual (F1.6 to 11) and Close

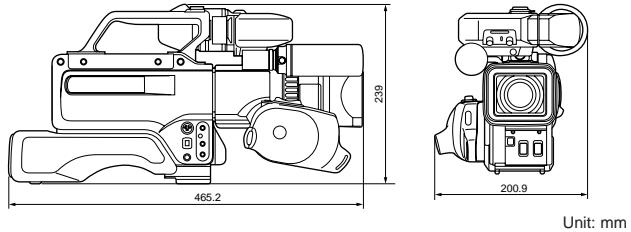
CAMERA

Image device:	3 CCD 1/3-inch, Interline-Transfer Sensor
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.
Scanning size:	4:3/16:9 switchable
Gain:	Auto/ Manual(-3, 0, 3, 6, 9, 12, 15, 18 dB)
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/5800 K/3200 K
Minimum illumination:	3 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/s. (DVCA mode)
Maximum recording time:	184 minutes (with PDV-184ME)

Dimensions



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VIDEO:

Video signal:	EIA standard, NTSC Color system
Output:	BNC x 1, Pin jack x 1, 1.0Vp-p, 75 Ω, Sync negative
S-Video:	4-pin mini-DIN connector x 1
	Y: 1.0 Vp-p, 75 Ω, unbalanced
	C: 0.286 Vp-p (subcarrier burst), 75 Ω, unbalanced

AUDIO

Audio signal:	REC: 48 kHz/16-bit, 32 kHz/12-bit, PB: 48 kHz/16-bit, 32 kHz/12-bit, 32 kHz/16-bit, 44.1 kHz/16-bit
Input:	XLR 3-pin x 2 (MIC/LINE selectable)
Output:	Stereo mini-jack x 1 (L&R x 1)

DIGITAL IN/OUT:

i.LINK (DV IN/OUT), 4-pin jack x 1 (IEEE1394-based)

OTHER CONNECTORS

LANC:	Stereo mini-mini jack x 1
Headphone jack:	Stereo mini jack x 1
RFU DC output:	Special mini jack x 1 (DC 5 V)
External DC input:	4-pin for DK-715 cable
Viewfinder interface:	8-pin connector

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:	DC 7.2 V (Battery operation), DC 8.4 V (AC adaptor)
Power consumption:	11.6 W (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. 3.6 kg (7 lb 15 oz) (without a tape and batteries) Approx. 4.7 kg (10 lb 8 oz) (with a tape and three NP-F950 in NPA-10000/B)

SUPPLIED ACCESSORIES:

RMT-806 Wireless Remote Controller
AV stereo cable
S cable
R6 batteries (2)
Lens cap
Shoulder pad
Side pad
Operation manual