

# DSR-PD100/PD100P

RMT-811

## SERVICE MANUAL



MEMORY STICK

C MECHANISM

Ver 1.5 2003. 05



Photo: DSR-PD100

US Model  
Canadian Model

DSR-PD100

AEP Model

DSR-PD100P

NTSC model: DSR-PD100  
PAL model: DSR-PD100P

### Digital Camcorder

#### System

**Video recording system**  
Two rotary heads, Helical scanning system  
**Audio recording system**  
Rotary heads, PCM system  
Quantization: 16 32k/Hz (12bits, stereo), 1, stereo 12, 16 48k/Hz (16bits, stereo)  
**Video signal**  
DSR-PD500: NTSC color, SIA standards  
DSR-PD500P: PAL color, OCER standards  
**Usable cassette**  
Mini DV/CAM cassette with logo printed  
**Tape speed**  
DSR-PD500: Approx. 28,318 mm/s  
DSR-PD500P: Approx. 28,346 mm/s  
**Recording/playback time**  
40 minutes (PDV36-60M50)  
**Fast forward/rewind time**  
Approx. 2 min. 30 s (PDV36-60M50)  
**Image device**  
3CCD iCharge Coupled Device 1/4"

#### Viewfinder

Electric viewfinder (color)  
**Lens**  
Coated power zoom lens, 48x (Digital), 12x (Optical)

**Focal distance**  
f = 4.3 to 51.6 mm (1" to 2 1/4")  
40.3 to 496 mm (1 5/8" to 19 3/4")  
when converted into a 35 mm still camera  
F 1.6 - 2.8  
TTL autofocus system (inner focus wide macro system)  
**Color temperature**  
Auto,  $\text{M}$  (One push),  $\text{D}$  (Indoor)  
00000,  $\text{D}$  (Outdoor) 09000  
**Minimum illumination**  
4 lux at F 1.6  
**Illumination range**  
4 to 100,000 lux  
**Recommended illumination**  
More than 300 lux

#### LCD screen

**Picture**  
3.5 inches measured diagonally  
72.4 x 50.4 mm (2 7/8 x 2 in.)  
**On-screen display**  
TN LCD/TFT active matrix method  
**Total dot number**  
384,560 (639 x 220)

#### Input and output connectors

**5 VIDEO input/output**  
Input/output auto switch  
4-pin mini DIN  
Luminance signal: 1 Vp-p, 75 ohms, unbalanced, sync negative  
Chrominance signal: 0.286 Vp-p  
DSR-PD500, 0.3 Vp-p (DSR-PD500P), 75 ohms, unbalanced

### SPECIFICATIONS

#### Audio/Video input/output

Input/output auto switch  
A/V MINS (A/C, 1 Vp-p, 75 ohms, unbalanced, sync negative)  
327 mV, 0- output impedance more than 47 kilohms  
Output impedance with less than 3.2 kilohms (Stereo minijack, 6 3.5mm)  
Input impedance more than 47 kilohms  
**DV input/output**  
4-pin special connector  
**Headphones**  
Stereo minijack (6 3.5 mm)  
**MIC input**  
Stereo minijack (6 3.5mm) 0.388V, DC2.5V  
Input impedance 6.8 kilohms  
**GLANC jack**  
Stereo minijack (6 2.5 mm)

#### General

**Power requirements**  
7.2 V (battery insertion input)  
8.4 V (DC 24 jack)  
**Average power consumption**  
4.3 W during camera recording using viewfinder  
5.3 W during camera recording using LCD screen  
**Operating temperature**  
0°C to 40°C (32°F to 104°F)  
**Storage temperature**  
-20°C to 60°C (-4°F to 140°F)  
**Dimensions**  
Approx. 90 x 112 x 240.5 mm (w/h/d)  
4 1/8 x 4 1/2 x 9 1/2 in.)

#### Mass

Approx. 900 g (3 lb 16 oz) including the battery pack and the cassette.  
Approx. 985 g (2 lb 3 oz) including the XLR adaptor  
Approx. 1,228 kg (3 lb 13 oz) including the XLR adaptor, wide conversion lens and wide conversion lens hood.  
**Microphone**  
Electret condenser microphone, Stereo type  
**Speaker**  
Dynamic speaker  
**Supplied accessories**  
See page 2.

### AC power adaptor

**Power requirements**  
100 to 240 V AC, 50/60 Hz  
**Power consumption**  
23 W  
**Output voltage**  
DC OUT: 8.4 V, 1.3 A in operating mode  
**Operating temperature**  
0°C to 40°C (32°F to 104°F)  
**Storage temperature**  
-20°C to 60°C (-4°F to 140°F)  
**Dimensions (Approx.)**  
125 x 39 x 62 mm (w/h/d) (5 x 1 1/2 x 2 1/2 in.)  
**Mass (Approx.)**  
250 g (9.8 oz) excluding power cord

— Continued on next page —

**DVCAM**™ DIGITAL CAMCORDER

**SONY**



# Sony Dsr Pd100 Pd100p Service Manual

**G Orfield**



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