

# DCR-PC6E/PC9/PC9E

RMT-814

## SERVICE MANUAL

Level 2 Ver 1.0 2001.05



Digital Handycam



MEMORY STICK



Photo : DCR-PC9E  
RMT-814

US Model  
Canadian Model  
Korea Model  
DCR-PC9

AEP Model  
UK Model  
DCR-PC6E/PC9E

E Model  
Hong Kong Model  
Tourist Model  
DCR-PC9/PC9E

Australian Model  
Chinese Model  
DCR-PC9E

J MECHANISM

### On the VC-265/265A board

This service manual provides the information that is premised the circuit board replacement service and not intended repair inside the VC-265/265A board.

Therefore, schematic diagram, printed wiring board, waveforms, parts location and electrical parts list of the VC-265/265A board are not shown. The following pages are not shown.

Printed wiring board .....	Pages 4-15 to 4-18
Schematic diagram .....	Pages 4-19 to 4-54
Waveforms and parts location .....	Pages 4-74 to 4-77
Electrical parts list .....	Pages 6-13 to 6-24

For MECHANISM ADJUSTMENTS, refer to the  
"DV MECHANICAL ADJUSTMENT MANUAL VI  
J MECHANISM" (9-929-607-11).

NTSC model : DCR-PC9  
PAL model : DCR-PC6E/PC9E

### Video camera recorder

#### System

Video recording system  
2 rotary heads.  
Helical scanning system  
Audio recording system  
Rotary heads, PCM system  
Quantization: 12 bits (for 32 kHz),  
stereo 1, stereo 2, 16 bits  
(for 48 kHz, stereo)  
Video signal  
DCR-PC9  
NTSC color, SDA standards  
DCR-PC6E/PC9E  
PAL colour, CCIR standards  
Unusable cassette  
Mini DV cassette with the "DV"  
mark printed  
Tape speed  
SP: Approx. 18.81 mm/s  
LP: Approx. 12.56 mm/s  
Record ng/ playback time  
(using cassette DVM60)  
SP: 1 hour  
LP: 1.5 hours

Picture size and time  
(using cassette DVM60)  
Approx. 7 min. and 30 seconds  
Video 7 index  
Electronic viewfinder (colour)  
Total dot number  
DCR-PC9/PC9E: 580 000 (800 × 720)  
DCR-PC6E: 133 578 (521 × 258)  
Image device  
4.5 mm (1/4 type) CCD  
(Charge Coupled Device)  
DCR-PC9  
Approx. 680 000 pixels  
(Effective: 340 000 pixels)  
DCR-PC6E/PC9E  
Approx. 800 000 pixels  
(Effective: 400 000 pixels)  
Lens  
Carl Zeiss  
Coated lens, powered zoom lens  
Focal diameter 30 mm, (1.3/36 in.)  
50x (Optical), 120x (Digital)  
Focal length  
3.5 - 35 mm (5/32 - 1.5/16 in.)  
When converted to a 35 mm still  
camera 42 - 420 mm (1.13/16 - 16.5/8 in.)

Colour temperature  
Auto, HOLD (Hold),  $\frac{1}{2}$  Indoor  
(3 200K),  $\frac{1}{2}$  Outdoor (5 500K)  
Minimum illumination  
5 lx (Lux) (F 1.7)  
0 lx (Lux) (in the NightShot mode)\*  
\* Objects visible to be seen due to  
the dark see, be shot with infrared  
lighting.

#### Input/output connectors

8 video input/output (DCR-PC9/  
PC9E)  
8 video output (DCR-PC6E)  
4-pin mini DIN  
Luminance signal: 1 V<sub>p-p</sub>,  
75  $\Omega$  (ohms), unbalanced, sync  
negative  
Chrominance signal:  
DCR-PC9: 0.286 V<sub>p-p</sub>,  
DCR-PC6E/PC9E: 0.3 V<sub>p-p</sub>,  
75  $\Omega$  (ohms), unbalanced  
Audio/Video input/output (DCR-  
PC9/PC9E)

Audio/video output (DCR-PC6E)  
AV MINIS (A/C, input/output auto-  
switch)  
Video signal: 1 V<sub>p-p</sub>, 75  $\Omega$  (ohms),  
unbalanced, sync negative  
Audio signal: 307 mV, (no output  
Lined since more than 47 k $\Omega$ ,  
balanced)  
Input impedance with more than  
47 k $\Omega$  (kiloohms)  
Output impedance with less than  
1.2 k $\Omega$  (kiloohms)

1 DV input/output (DCR-PC9/PC9E)  
1 DV output (DCR-PC6E)  
4-pin connector  
Headphone jack  
Stereo mini-jack (ø 3.5 mm)  
LANC-4 jack  
Stereo mini-minijack (ø 2.5 mm)  
1/8" USB jack (DCR-PC9/PC9E only)  
mini-B

— Continued on next page —



DIGITAL VIDEO CAMERA RECORDER

SONY

# Sony Dcr Pc6e Pc9 Pc9e Service Manual

**Sony (Great Britain) Ltd**



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