

DCR-PC6E/PC9/PC9E

RMT-814

SERVICE MANUAL

Level 2 Ver 1.0 2001.05



Digital Handycam



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 V1
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 × 218)
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.)

SPECIFICATIONS

Colour temperature
Auto, HOLD (Hold), $\frac{1}{2}$ Indoor
(3 200K), $\frac{1}{2}$ Outdoor (5 500K)
Minimum illumination
5 lx (Auto) (F 1.7)
0 lx (Auto) (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-p-p,
75 Ω (ohms), unbalanced, sync
negative
Chrominance signal:
DCR-PC9: 0.286 V-p-p,
DCR-PC6E/PC9E: 0.3 V-p-p
75 Ω (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-p-p, 75 Ω (ohms),
unbalanced, sync negative
Audio signal: 307 mV, (no output
Lined since more than 47 k Ω
load) (stereo)
Input impedance with more than
47 k Ω (kiloohm)
Output impedance with less than
1.2 k Ω (kiloohm)

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

Sonī Kabushiki Kaisha



Sony Dcr Pc6e Pc9 Pc9e Service Manual:

Sony XR 7071 Service Manual Sony (Great Britain) Ltd,

Sony Service Manual Soni Kabushiki Kaisha,198?

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