

DCR-PC110/PC110E

RMT-811

SERVICE MANUAL

Ver 1.0 2000.09

Level 2



Digital Handycam



MEMORY STICK



Photo : DCR-PC110
RMT-811

US Model
Canadian Model
Korea Model
DCR-PC110

AEP Model
UK Model
Australian Model
Chinese Model
DCR-PC110E

E Model
Hong Kong Model
Tourist Model
DCR-PC110/PC110E

J MECHANISM

On the VC-253 board

This service manual provides the information that is premised the circuit board replacement service and not intended repair inside the VC-253 board.

Therefore, schematic diagram, printed wiring board and electrical parts list of the VC-253 board are not shown.

The following pages are not shown.

Printed wiring board	Pages 4-11 to 4-14
Schematic diagram	Pages 4-15 to 4-32
Electrical parts list	Pages 6-16 to 6-26

For MECHANISM ADJUSTMENTS, refer to the
"DV MECHANICAL ADJUSTMENT MANUAL (J)
J MECHANISM" (9-829-807-11).

DCR-PC110	: NTSC model
DCR-PC110E	: PAL model

SPECIFICATIONS

Video camera recorder

System

Video recording system

2 rotary heads

Magnetic scanning system

Audio recording system

Rotary heads, PCM system

Quantization: 12 bits (Fs 32 kHz,
stereo L, stereo R), 16 bits
(Fs 48 kHz, stereo)

Video signal

NTSC, color, EIA standards (PC110),

PAL, color, CCIR standards (PC110E)

Usable cassette

Mini DV cassette with the "DV"
mark printed

Tap speed

SP: Approx. 18.80 mm/s

LIP: Approx. 12.56 mm/s

Recording/playback time

(using cassette DVM60)

SP: 1 hour

LIP: 1.5 hours

Fastforward/rewind time

(using cassette DVM60)

Approx. 2 min. and 30 seconds

Viewfinder

Electric viewfinder (colour)

Image device

1/4 type CCD (Charge Coupled

Device)

Approx. 1,070,000 pixels

(Effective (static) 1,000,000 pixels)

(Effective (moving) 690,000

pixels)

Lens

Carl Zeiss Vario-Tessar T*

Combined power zoom lens

Filter diameter:

37 mm (1 1/2 in.)

10x (Optical), 120x (Digital) (PC110),

10x (Optical), 80x (Digital) (PC110E)

Focal length

4.2 - 42 mm (1/16 - 1 11/16 in.)

When converted to a 35-mm still

camera

Camera mode:

48 - 480 mm (1 15/16 - 19 in.)

Memory mode:

40 - 400 mm (1 5/8 - 15 3/4 in.)

Colour temperature

Auto, H/OLD (Hold), $\frac{1}{2}$ Int/Ex

(2000K), $\frac{1}{2}$ Outdoor (2400K)

Minimum illumination

7 lux (F 1.8)

0 lux (in the NightShot mode)*

* Objects unable to be seen due
to the dark can be shot with
infrared lighting.

Input/output connectors

5 video input/output

4-pin mini DIN

Luminance signal: 1 Vp-p,

75 ohms, unbalanced

Chrominance signal: 0.286 Vp-p,

(PC110), Chrominance signal:

0.3 Vp-p (PC110E),

75 ohms, unbalanced

Audio/video input/output

AV MDX (jack), 1 Vp-p,

75 ohms, unbalanced, sync

negative

300 mV (at output impedance

more than 47 kilohms)

Output impedance with less than
2.2 kilohms/Stereo minijack
(ϕ 3.5mm)

Input impedance more than

47 kilohms

DV input/output

4-pin connector

Headphone jack

Stereo minijack (ϕ 3.5 mm)

LANC $\frac{1}{2}$ jack

Stereo mini-minijack

(ϕ 2.5 mm)

USB jack

mini-B

Hi8 jack

Minijack, 0.388 mV low

impedance with 2.5 to 3.0 V DC,

output impedance 4.8 kilohms (ϕ

3.5 mm)

Stereo type

— Continued on next page —

Mini DV Digital Video Cassette

DIGITAL VIDEO CAMERA RECORDER

SONY®

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VTR in Camera BVW-300 Soni Kabushiki Kaisha. Communications Products Group,1990 *Sony Service Manual* Soni
Kabushiki Kaisha,1974* HELP Bumper Service Manual ,1976 **Technical Service Manual: Pacer** American Motors
Sales Corporation. Service Publications,1975 **Nissan/Datsun** Nissan (Tokyo), **Service Manual for the Doctor of**
Motors Perfect Circle Companies,1943* **Service Manual** Motor Co. Ltd Nissan,197? Dodge Service Manual Chrysler
Corporation. Dodge Division. Service Department,1962

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