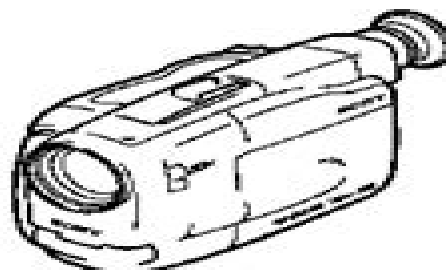
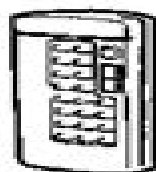


# CCD-TRV31/TRV41/TRV51/TRV81

## RMT-708/715

### SERVICE MANUAL



CCD-TRV81  
RMT-715

US Model  
Canadian Model  
Tourist Model  
CCD-TRV41/TRV81  
E Model  
Hong Kong Model  
CCD-TRV31/TRV41/TRV51/TRV81

Handycam  
Video 8  
video Hi8  
B MECHANISM

For MECHANISM ADJUSTMENTS, refer to the "8mm Video MECHANICAL ADJUSTMENT MANUAL Y01" (9-673-801-11).

#### SPECIFICATIONS

#### Video camera/recorder

**System**  
Video recording system  
Time-lapse function, 8 different recording  
Full system  
Audio recording system  
Battery handle, PSL system  
Video signal  
NTSC color, PAL optional  
Shutter control  
Zoom video format cassette  
CCD-TRV31/TRV41/TRV51  
recorder  
CCD-TRV81  
14 mm standard 8  
Recording / Playback time (using  
120 min. cassette)  
SP mode: 2 hours  
LP mode: 4 hours  
Fastforward/rewind time (using  
120 min. cassette)  
Approx. 4 min.  
Image device  
CCD-Charge Coupled Device  
Viewfinder  
Electronic viewfinder  
Microphone  
Lens  
Combined power zoom lens  
F1.8 (Diameter 37 mm)  
CCD-TRV31:  
15 x 0.45 mm  
CCD-TRV41/TRV51/TRV81:  
15 x 0.45 mm, 45 = 0.45 mm  
Focal distance  
4.5 - 15.5 mm (0.175 - 0.61 / 0.69 in.)  
36 - 360 mm (1.416 - 14.17 / 1.38 in.)  
when connected to a 20 mm still  
camera

Color temperature  
Auto  
Minimum illumination\*  
CCD-TRV31/TRV41:  
0.1 lux (F 1.4)  
Available minimum low light (L3) low  
CCD-TRV41/TRV51:  
2 lux (F 1.4)  
Illumination range  
CCD-TRV31/TRV41:  
0.1 lux to 100,000 lux  
CCD-TRV41/TRV51:  
2 lux to 100,000 lux  
Maximum illumination  
More than 100 lux  
Minimum illumination exposure  
low light level, a standard  
exposure in picture plane,  
visible minimum low light  
exposure (the light level to  
produce a visible signal)

#### Audio system

**Input level (standard specification)**  
Minimum level (0 dB)  
3 mV (input impedance: 100 kΩ)  
only  
4-pin mini DIN  
Line/voice signal: 0 V-p-p, 75 Ω  
audio  
Characteristics signal: 0.250 V-p-p, 75  
Ω, unbalanced  
Video input/output  
Phone jack, 1 V-p-p, 75 Ω,  
balanced  
112.5 kHz (PAL) - 134

Audio input/output  
CCD-TRV31: Phone jack  
CCD-TRV41/TRV51/TRV81:  
Phone jack (2 stereo & 1 mono)  
320 mV, 600 Ω output impedance  
of 100 Ω impedance less than 10 kΩ  
L/R DC OUT  
Special microphone, CCD-TRV  
Microphone jack (CCD-TRV41/  
TRV51/TRV81)  
Phone jack (2 stereo & 1 mono)  
Microphone jack (CCD-TRV31)  
Monaural, phone jack  
L/R control jack  
Stereo microphone jack (2 stereo  
MIC IN)  
Minijack, 0.344 mV (low impedance  
with 0.1 to 2 kΩ DC, output  
impedance 0.1 kΩ to 2 kΩ)  
NTSC/NTSC-Minijack type  
CCD-TRV31/TRV51/TRV81: Stereo  
type  
Speaker  
Dynamic speaker  
Self-prompt accessory shoe  
4-pin connector  
Power supply  
Power requirements  
2.5 V (battery pack)  
2.5 V (A.C. power adaptor)  
Average power consumption  
During camera recording using  
A.C.  
CCD-TRV31: 2.2 W  
CCD-TRV41: 1.4 W  
CCD-TRV51: 2.8 W  
CCD-TRV81: 2.8 W

Operating temperature  
0°C to 40°C (32°F to 104°F)  
Storage temperature  
-20°C to +40°C (-4°F to +104°F)  
Dimensions (approx.)  
14.5 x 5.5 x 3.5 in. (367 x 139 x 89 mm)  
Weight (approx.)  
CCD-TRV31/TRV41:  
0.9 kg (2 lb 5.2 oz)  
CCD-TRV51/TRV81:  
1.2 kg (2 lb 8.3 oz)  
including H-battery pack, cable  
for battery handle and shoulder strap  
CCD-TRV31/TRV41:  
1.1 kg (2 lb 5.2 oz)  
CCD-TRV51/TRV81:  
1.1 kg (2 lb 5.2 oz)  
including battery pack NP-F330,  
cable and shoulder strap  
Microphone  
CCD-TRV31: Miniature type  
CCD-TRV41/TRV51/TRV81: Stereo  
type  
Cassette recorder  
See page 1-2

#### A.C. power adaptor

Power requirements  
115 - 240 V A.C. 50/60 Hz  
Power consumption  
25 W  
Output voltage  
DC 2.5 V (2.4 V, 1.9 A in operating  
mode)  
Battery charge limit (at 2.4 V, 1.9 A  
in charge mode)  
Application  
Sony battery pack: NP-F330, NP-  
F330, lithium type  
Operating temperature  
2°C to 40°C (32°F to 104°F)  
Storage temperature  
-20°C to +40°C (-4°F to +104°F)  
Dimensions (approx.)  
81 x 65 x 130 mm  
(3 1/8 x 2 1/2 x 5 1/8 in.)  
including projecting parts  
and cassette  
Shut (approx.)  
500 g (1 lb 2.2 oz)

Design and specifications are  
subject to change without notice.

— Continued on next page —

**3 VIDEO CAMERA RECORDER**  
CCD-TRV31/TRV41/TRV51  
**Hi8 VIDEO CAMERA RECORDER**  
CCD-TRV81  
**SONY**

# Sony Ccd Trv31 Trv41 Trv51 Trv81 Service Manual

**Anthony S. Fauci**



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