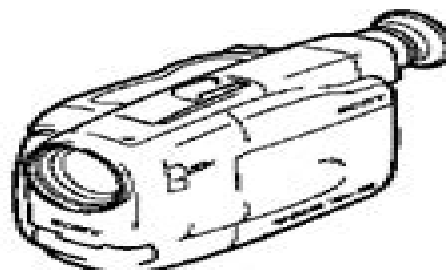
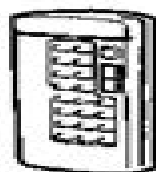


CCD-TRV31/TRV41/TRV51/TRV81

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
Beam 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 (Maximum 17 mm)
CCD-TRV31:
15 x 0.0001
CCD-TRV41/TRV51/TRV81:
15 x 0.0001, 40 x 0.0001
Focal distance
4.5 x 15.5 mm (1/16 - 3.1/32 in.)
36 x 360 mm (1 9/16 - 14 1/8 in.)
when connected to a 20 mm still
camera

Color temperature
Auto
Minimum illumination*
CCD-TRV31/TRV51:
0.1 lux (F 1.4)
Available minimum low light (L3) low
CCD-TRV41/TRV81:
2 lux (F 1.4)
Illumination range
CCD-TRV31/TRV51:
0.1 lux to 100,000 lux
CCD-TRV41/TRV81:
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/Output (connector)
Microphone (3.5 mm)
3.5 mm input/output (CCD-TRV31
only)
4-pin mini DIN
Line/output signal: 3 V p-p, 75 Ω
balanced
Characteristics signal: 0.250 V p-p, 75
 Ω , unbalanced
Video input/output
Phone jack, 3 V p-p, 75 Ω ,
unbalanced
112,500 p-p - 10K

Audio input/output
CCD-TRV31: Phone jack
CCD-TRV41/TRV51/TRV81:
Phone jack (3.5 mm) & 4-pin
mini DIN
320 mV, 600 Ω output impedance
47 k Ω impedance less than 32 k Ω
47 k Ω DC OUT
Special microphone, CCD-TRV
Microphone jack (CCD-TRV41/
TRV51/TRV81)
Phone jack (3.5 mm)
Microphone jack (CCD-TRV31)
Monaural, phone jack
Laser control jack
Cassette auto-reject for 3.5 mm
MC (40)
Minijack, C 300 mV low impedance
with 0.1 to 24 V DC, output
impedance 0.1 Ω to 3.5 mm
47 k Ω 100 k Ω Mini-jack type
CCD-TRV31/TRV51/TRV81: Stereo
type
Speaker
Dynamic speaker
Self-prompt accessory shoe
4-pin connector
Power input
Power requirements
2.5 V (battery pack)
2.5 V A.C. power adaptor
Average power consumption
During camera recording using
a C-10
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 +60°C (-4°F to +140°F)
Dimensions (approx.)
14 1/4 x 5 1/8 x 3 1/8 in./36 x
13 x 8 cm (approx.)
CCD-TRV31/TRV41:
100 g (3.5 oz)
CCD-TRV51/TRV81:
1.2 kg (2.6 lb)
including H-battery pack, cable
for battery handle and shoulder strap
CCD-TRV31/TRV41:
1.1 kg (2.4 lb)
CCD-TRV51/TRV81:
1.1 kg (2.4 lb)
including H-battery pack, H-PSL,
H-battery handle
CCD-TRV31: Mini-jack type
CCD-TRV41/TRV51/TRV81: Stereo
type
Supplied accessories
See page 1-2

AC power adaptor

Power requirements
115 - 240 V A.C. 50/60 Hz
Power consumption
25 W
Output voltage
DC 2.5 V 2.5 V, 1.5 A in operating
mode
Battery charge limit 2.4 V, 2.4 A
in charge mode
Application
Sony battery pack: NP-F50, NP-
F50, lithium type
Operating temperature
2°C to 40°C (32°F to 104°F)
Storage temperature
-20°C to +60°C (-4°F to +140°F)
Dimensions (approx.)
21 x 65 x 150 mm
8 3/8 x 2 1/2 x 5 7/8 in. (including projecting parts
and cassette)
Weight (approx.)
500 g (1.1 lb)

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

A Gutmann



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web state the solution to the problem an unbounded set is a set that has no bound and continues indefinitely a linear programming problem with an unbounded set may or may not have an optimal solution but if there is an optimal solution it occurs at a corner point bounded set is a set that has a boundary around the feasible set

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web algebra 2 linear programming notes word problems example you own a factory that makes soccer balls and volleyballs the soccer balls take 3 hours to cut out and 1 hour to sew together volleyballs take 2 hours to cut and 2 hours to sew together you make a profit of 5 on the soccer balls and 4 on the volleyballs

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web complete each linear programming problem make a labeled graph for each problem and include any other work list what the variables represent the constraints including the hidden ones the objective function the vertices and finally the ordered pair and value of the optimal solution

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web oct 9 2019 earth fault loop impedance calculation previously we did a simple calculation for the maximum length of the cable we have not considered the internal

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web therefore if the measured value of impedance is below 5.44Ω the earth loop impedance of the circuit is acceptable for motor rated devices with thermal and magnetic

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web the calculation of max zs is made in order to verify that the protective device functions within time limits during earth

fault the maximum impedance during earth fault max

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web bs 7671 2018 tables 41 2 41 3 and 41 4 indicate the maximum earth fault loop impedance values it s important to note that these are the maximum values which

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web the maximum acceptable earth electrode resistance for installations operating tn s or in tt systems where earth fault loop impedance is not restricted to a lower value is 200

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web the following table gives the limiting values of earth fault loop impedance when measured at ambient temperatures up to maximum measured values of planet fault

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web jul 18 2019 the maximum earth fault loop impedance values z s in bs 7671 or the equivalent tables in the iet on site guide osg and iet guidance note 3 inspection

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web the value of maximum earth fault loop impedance z max with respect to the actual total impedance z s may be used to determine the appropriate earth cable size explained

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web tables 5 1 and 5 2 give maximum earth fault loop ripple values for fuses and for miniature circuit breakers to give a minimum disconnection time of 0 4 s includes the

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web the maximum values of earth fault loop impedance to achieve the disconnection time vary with the different types of protective device and also between manufacturers

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web calculates earth fault loop impedance based on active and earth conductor impedances and protective device select the active conductor size within the range from 1 to 630

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web maximum measured values of earth fault loop impedance z_s the table below provides maximum values of z_s for fuses and circuit breakers fuses circuit breakers to

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web mar 6 2020 maximum earth fault loop impedance for overcurrent device was calculated 230 mcb rating 5 rule of thumb is that correct and how are they

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web table 41 4 maximum earth fault loop impedance z_s for fuses for 5 s disconnection time with u_0 of 230 v see regulation 411 4 8 a general purpose gg fuses to bs 88 2 2

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web what resistance values are required for a tt earthing system table 41 5 of bs 7671 2018 a1 2020 states that 1667 ohms is the maximum earth fault loop

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web the maximum z_s values given in tables 41 2 to 41 4 are based upon the line conductors carrying load current and being at a temperature of 70 c