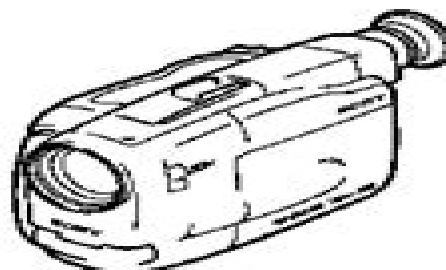
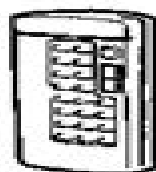


CCD-TRV31/TRV41/TRV51/TRV81

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" (9-973-801-11).

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
F18mm (diameter 37 mm)
CCD-TRV31:
15 x optical
CCD-TRV41/TRV51/TRV81:
15 x optical, 40 x (digital)
Focal distance
4.5 x 15.5 mm (9/16 - 31/32 in.)
36 x 36.5 mm (1 1/4 - 1 1/2 in.)
when connected to a 35 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 level (standard specification)
Minimum level (reference level)
3 audio input/output (CCD-TRV31
only)
4-pin mini DIN
Line/voice signal: 0 V-p-p, 75 Ω,
balanced
Characterize signal: 0.230 V-p-p, 75
Ω, unbalanced
Video input/output
Phone jack, 1 V-p-p, 75 Ω,
balanced
112,500 pass - 10K

Audio input/output
CCD-TRV31: Phone jack
CCD-TRV41/TRV51/TRV81:
Phone jack (2 stereo & 1 mono)
3200 mV, 60 output impedance
of 100 impedance less than 32 kΩ
L/R DC OUT
Special microphone, CCD-TRV
Microphone jack (CCD-TRV41/
TRV51/TRV81)
Phone jack (2 & 1 mono)
Phone jack (CCD-TRV31)
Monaural, phone jack
L/R control jack
Stereo microphone for L/R and
MFC (H)
Minijack, C 300 mV low impedance
with 0.1 to 34 V DC, output
impedance 0.1 kΩ to 3.5 kΩ
NTSC/NTS: Monaural 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)
2.4 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: 2.7 W

Operating temperature
CCD-TRV31: 30°C to 40°C
Storage temperature
-20°C to +40°C (-4°F to +104°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-TRV41/TRV51:
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, HPS-100,
battery handle and shoulder strap
Microphone
CCD-TRV31: Monaural type
CCD-TRV41/TRV51/TRV81: Stereo
type
Supplied accessories
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, 1.4 A in operating
mode)
Battery charge limit 2.4 V, 1.4 A
in charge mode
Application
Sony battery packs NP-PS33, NP-
PS34, NP-PS35 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.)
81 x 65 x 180 mm
3 1/8 x 2 1/2 x 7 1/8 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

Julia Schneider



Sony Ccd Trv31 Trv41 Trv51 Trv81 Service Manual:

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feb 21 2022 the present study aims to develop a tension leg platform to support the iea 10 mw offshore wind turbine aiming at a water depth of 60 m the platform is modified based on the csc braceless concept proposed by luan which is equipped with a 5 mw wind turbine and a catenary mooring system luan designed the fowt for a water depth of 200 m

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a tension leg platform tlp or extended tension leg platform etlp is a vertically moored floating structure normally used for the offshore production of oil or gas and is particularly suited for water depths greater than 300 metres about 1000

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tension leg platforms tlps are floating platforms that combine the buoyancy forces generated by displacement resulting from the draft submerged part of the hull with the tensile forces generated by tubular cables connected to the hull and anchored on the seabed

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jun 30 2018 a tension leg platform which is called tlp in short is a type of fixed platforms that is anchored to the seafloor the deck platform and the hull of tlp s are connected to the foundations

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may 15 2022 the tension leg platform tlp is a type of offshore floating structure that is permanently attached to the seabed by pretensioned vertical tethers or tendons the tethers are kept continually taut by the excess buoyancy of the platform the responses caused by external excitation force is called the forced vibration

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tension leg platforms tlps are bottom founded floating structures which are moored at the seabed by steel tethers connected to driven piles under the action of wind waves and current a tlp moves like an inverted pendulum with negligible heave pitch

and roll motions and maintains a near constant distance between the platform and seabed

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tension leg platform a tlp refers to the platform that is held in place by vertical tensioned tendons connected to the sea floor
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