

# CCD-TR311/TR311E/TR411E/TR412E/TR511E/ TR512E/TR640E/TR730E/TR840E/TR845E RMT-708

## SERVICE MANUAL



Ver 1.2 1999.07  
with SUPPLEMENT-1  
(9-974-039-81)

Handycam  
Video 8 **XR**  
video Hi8 **XR**



Photo : CCD-TR845E  
: RMT-708

### AEP Model

CCD-TR411E/TR412E/TR511E/TR512E/TR640E/TR840E/  
TR845E

### UK Model

CCD-TR411E/TR511E/TR512E/TR640E/TR840E

### East European Model

### North European Model

### Russian Model

CCD-TR411E/TR412E/TR511E/TR512E/TR640E/TR840E

### E Model

CCD-TR311E/TR312E/TR511E/TR512E/TR640E

### Hong Kong Model

CCD-TR311E/TR511E

### Australian Model

CCD-TR311E/TR511E/TR512E/TR640E

### Tourist Model

CCD-TR311E/TR511E

### Chinese Model

CCD-TR311E/TR511E/TR512E

### B MECHANISM

#### Video camera recorder System

Video recording system

2 Rotary heads

Relaxed scanning FM system

Audio recording system

Rotary heads, FM system

Video signal

CCD-TR311 : NTSC color, SIA

standard

CCD-TR311E/TR312E/TR511E/TR512E/  
TR640E : PAL color, SIA standard

TR840E : PAL color, SIA standard

Useless cassette

8mm video format cassette

CCD-TR311/TR312E/TR511E/TR512E/  
TR640E/TR730E/TR840E/TR845E :

standard II

CCD-TR640E/TR840E :

SIS or standard II

Recording / Playback time

using 90 min. cassette(s)

SD mode : 1 hour and 30 minutes

LP mode : 3 hours

Fast motion drawing time

using 90 min. cassette(s)

Approx. 3 cols.

Image device

CCD (Charge Coupled Device)

Viewfinder

Electronic viewfinder

CCD-TR311/TR312E/TR511E/TR512E/  
TR640E/TR730E/TR840E/TR845E :

Microfilm

CCD-TR311E/TR312E :

Color 113,708 (321 x 238)

#### Lens

Combined power zoom lens

Filter diameter : 1.781 in. (37 mm)

CCD-TR411E (AUS, UK) :

55 x (Optical), 32 x (Digital)

CCD-TR412E (AUS) :

55 x (Optical), 64 x (Digital)

CCD-TR311E/TR312E :

55 x (Optical), 100 x (Digital)

CCD-TR411E (SIS, NIS, RU) :

55 x (Optical), 160 x (Digital)

CCD-TR412E (SIS, NIS, RU) :

55 x (Optical), 200 x (Digital)

CCD-TR311E (AUS, UK)/TR640E

(AUS, UK)/TR840E (AUS, UK)/TR845E

: 55 x (Optical), 72 x (Digital)

CCD-TR311E (SIS, NIS, RU, S, HK,

AUS, CHN/TR312E/TR640E (SIS, NIS,

RU)/TR730E/TR840E (SIS, NIS, RU,

AUS) : 55 x (Optical), 200 x (Digital)

Focus distance

CCD-TR311E/TR312E/TR511E/TR512E :

39.6 - 2.54 in. (4.2 - 65.6 mm)

CCD-TR311E/TR312E/TR511E/TR512E :

39.6 - 2.54 in. (4.2 - 65.6 mm)

CCD-TR640E/TR840E/TR845E :

39.6 - 2.54 in. (4.2 - 65.6 mm)

White illuminated ca. 30 mm (0.2 camera

CCD-TR311E/TR312E/TR511E/TR512E :

1.816 - 24.78 in. (39.4 - 629 mm)

CCD-TR640E/TR840E/TR845E :

1.816 - 24.78 in. (39.4 - 629 mm)

Color temperature

Auto

#### Minimum illumination\*

CCD-TR311E/TR312E/TR511E/TR512E :

0.4 lux at F1.4 (Visible spectrum, low

light 0.2 lux)

CCD-TR311E/TR511E :

0.4 lux at F 1.4

CCD-TR640E/TR730E/TR840E/  
TR845E : 0.7 lux at F 1.4

CCD-TR311E/TR312E/TR511E/TR512E/  
TR640E/TR730E/TR840E/TR845E :

0 lux (in NightShot mode)\*\*

\* Minimum illumination

expresses the light level a camcorder

requires to produce a picture. Visible

spectrum, low light expresses the light

level to produce a visible signal.

\*\* Object is visible for the dark can be

shot with infrared lighting.

Illumination range

CCD-TR311E/TR312E/TR511E/TR512E/  
TR640E/TR730E :

0.4 lux to 100,000 lux

CCD-TR640E/TR730E/TR840E/  
TR845E : 0.7 lux to 100,000 lux

Recommended illumination

More than 300 lux

#### Input and output connectors

5 Video input/output

(CCD-TR640E/TR840E only)

4-pin mini DIN

Luminance signal :

1 Vp-p, 75 ohms, unbalanced

CCD-TR311 :

Chrominance signal :

0.286 Vp-p, 75 ohms, unbalanced

CCD-TR311E/TR312E/TR511E/TR512E/  
TR640E/TR730E/TR840E/TR845E :

Chrominance signal :

0.7 Vp-p, 75 ohms, unbalanced

Video input

(CCD-TR640E : AUS only)/output

Phone jack :

1 Vp-p, 75 ohms, unbalanced

— Continued on next page —

**8 VIDEO CAMERA RECORDER**  
CCD-TR311E/TR312E/TR411E/TR412E/TR511E/TR512E/  
TR640E/TR730E

**Hi8 VIDEO CAMERA RECORDER**  
CCD-TR840E/TR845E



**SONY**

# Sony Ccd Tr1service Manual

**K Morrison**



## **Sony Ccd Tr1service Manual:**

## **Sony Ccd Tr1service Manual** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Sony Ccd Tr1service Manual**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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born in shkodra where he also attended his first lessons at the local jesuit college in 1918 his father send him to study in the jesuit directed cesare arici college in brescia and afterwards in bergamo then at the university of padua and became knowledgeable in albanian folk history he began to write under pseudonyms such as hilushi hilush vilza and borizani in the 1920s and 1930s koliqi was the founder of leading magazines in albania such as the illyria magazine

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web jan 5 2022 here we discuss the effects of diet macronutrients and micronutrients and hygiene the use of disinfectants on autoimmunity with a focus on systemic lupus erythematosus the immune system is an efficiently toned machinery that discriminates between friends and foes for achieving both host defense and homeostasis