

DCR-TRV320/TRV320E/TRV320P/TRV420E/ TRV520/TRV520E/TRV520P/TRV525/ TRV620E/TRV720/TRV720E RMT-814

SERVICE MANUAL

Self Diagnosis

Digital Handycam

InfoLITHIUM



MEMORY STICK™

B7000 MECHANISM

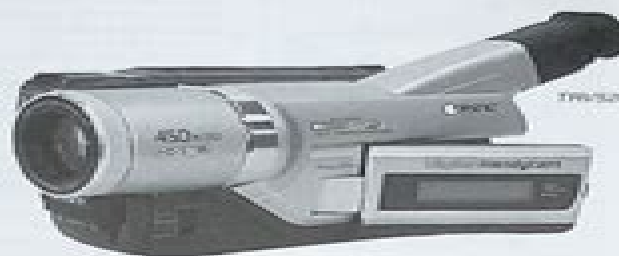


Photo: DCR-TRV320

US Model
DCR-TRV320/TRV520/TRV525/TRV720

Canadian Model
DCR-TRV320/TRV520/TRV720

AEP Model
DCR-TRV320E/TRV420E/TRV520E/TRV620E/TRV720E

UK Model
DCR-TRV320E/TRV520E

East European Model
North European Model

Russian Model
DCR-TRV320E

E Model
DCR-TRV320/TRV320E/TRV320P/
TRV520/TRV520E/TRV520P/TRV720/TRV720E

Hong Kong Model
DCR-TRV320E/TRV520E/
TRV520P/TRV720E

Korea Model
DCR-TRV320/TRV320E/TRV720

Argentina Model
DCR-TRV320P

Australian Model
DCR-TRV320E/TRV520E

Chinese Model
DCR-TRV320E/TRV520E/TRV720E

Tourist Model
DCR-TRV320/TRV520E

NTSC MODEL : DCR-TRV320/TRV320P/TRV520/TRV520P/TRV525/TRV720
PAL MODEL : DCR-TRV320E/TRV420E/TRV520E/TRV620E/TRV720E

When the machine needs to be repaired,
please refer to page 9 to discriminate
the type of LCD.

For MECHANISM ADJUSTMENT, refer to
the "8mm Video MECHANICAL
ADJUSTMENT MANUAL" (9-973-801-11).

SPECIFICATIONS

Video camera recorder

System

Video recording system

2 battery feeds

Hi-Fi stereo system

Audio recording system

Battery feeds, PCM system

Quantization: 12 bits (For 32 kHz),

stereo 1, stereo 2s, 16 bits

(For 48 kHz, stereo)

Video signal

DCR-TRV320/TRV320P/TRV320E/
TRV520/TRV520E/TRV520P/TRV720

NTSC color, 525 lines (For 32 kHz),

DCR-TRV320E/TRV420E/TRV520E/
TRV620E/TRV720E

PAL color, CCIR standards

Recommended cassette

Hi-Fi Digital video cassette

Recording playback time (using

120 min. Hi-Fi video cassette)

SP mode: 1 hour

LP mode: 1 hour and 30 minutes

Fastforward/reel time (using

120 min. Hi-Fi video cassette)

Approx. 5 sec.

Viewfinder

Electronic Viewfinder (monochrome)

Image device

1/4 type CCD (i-Change Coupled

Devices)

DCR-TRV320/TRV320P/TRV320E/
TRV520/TRV520P/TRV520E/
TRV620E/TRV720E

Approx. 400,000 pixels

(Effective) Approx. 290,000 pixels

DCR-TRV320E/TRV420E/TRV520E/
TRV620E/TRV720E

Approx. 800,000 pixels

(Effective) Approx. 400,000 pixels

Lens

Conditioned precision zoom lens

Filter diameter 37 mm (1.5 in.)

25x (Optical)

DCR-TRV320/TRV320E: E, AUS, HK,
CN/TRV320P/TRV320E: CN/TRV320P/
TRV520E: E, AUS, HK, CN, RU/
TRV320P/TRV520E/TRV620E/TRV720E:
E, HK, CN

450x (Digital)

DCR-TRV320E: AEP, UK, EE, NE, RU/
TRV320E: AEP/TRV520E/TRV720E:
AEP

100x (Digital)

DCR-TRV420E: AEP

125x (Digital)

Focal length

3.7 - 92.5 mm (50X - 3.34 in.)

When converted to a 35 mm still camera

48 - 1200 mm (1.5 in. - 47.1 in.)

Colour temperature

Auto

Minimum illumination

DCR-TRV320/TRV320P/TRV320E/
TRV520/TRV520P/TRV520E/
TRV620E/TRV720E

1 lux (F 1.6)

DCR-TRV320E/TRV420E/TRV520E/
TRV620E/TRV720E

3 lux (F 1.6)

0 lux (in the NightShot mode)*

* Objects visible in the scene due to the

dark can be shot with infrared

lighting

Input/output

connectors

DCR-TRV320/TRV320P/TRV320E/
TRV520/TRV520P/TRV520E/
TRV620E/TRV720E

5 video input/output

E-pin mini DIN

Luminance signal: 1 Vp-p

75 ohms, unbalanced

Chrominance signal: 0.286 Vp-p

75 ohms, unbalanced

Audio/Video input/output

AV MINIBACK, 1 Vp-p, 75 ohms,

unbalanced, sync negative

327 mV, (at output impedance more than

47 kilohms)

Output impedance with less than 2.2

kilohms/400 ohm minipack (at 1.5 kHz)

Input impedance more than 47 kilohms

DCR-TRV320E: E, AUS, HK, CN/
TRV420E: CN/TRV520E: E, AUS, HK,
CN, RU/TRV620E/TRV720E:

5 video input/output

4-pin mini DIN

Luminance signal: 1 Vp-p

75 ohms, unbalanced

Chrominance signal: 0.3 Vp-p

75 ohms, unbalanced

Audio/Video output

AV MINIBACK, 1 Vp-p, 75 ohms,

unbalanced, sync negative

327 mV, (at output impedance more than

47 kilohms)

Output impedance with less than 2.2

kilohms/400 ohm minipack (at 1.5 kHz)

DCR-TRV320E: AEP, UK, EE, NE, RU/
TRV420E: AEP/TRV520E: AEP

- Continued on next page -

Digital 8

DIGITAL VIDEO CASSETTE RECORDER

SONY®

Sony Dcr Trv720 Camcorders Owners Manual

Sony Corporation of America



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Table of Contents Sony Dcr Trv720 Camcorders Owners Manual

1. Understanding the eBook Sony Dcr Trv720 Camcorders Owners Manual
 - The Rise of Digital Reading Sony Dcr Trv720 Camcorders Owners Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Sony Dcr Trv720 Camcorders Owners Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sony Dcr Trv720 Camcorders Owners Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sony Dcr Trv720 Camcorders Owners Manual
 - Personalized Recommendations
 - Sony Dcr Trv720 Camcorders Owners Manual User Reviews and Ratings

- Sony Dcr Trv720 Camcorders Owners Manual and Bestseller Lists
- 5. Accessing Sony Dcr Trv720 Camcorders Owners Manual Free and Paid eBooks
 - Sony Dcr Trv720 Camcorders Owners Manual Public Domain eBooks
 - Sony Dcr Trv720 Camcorders Owners Manual eBook Subscription Services
 - Sony Dcr Trv720 Camcorders Owners Manual Budget-Friendly Options
- 6. Navigating Sony Dcr Trv720 Camcorders Owners Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Sony Dcr Trv720 Camcorders Owners Manual Compatibility with Devices
 - Sony Dcr Trv720 Camcorders Owners Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sony Dcr Trv720 Camcorders Owners Manual
 - Highlighting and Note-Taking Sony Dcr Trv720 Camcorders Owners Manual
 - Interactive Elements Sony Dcr Trv720 Camcorders Owners Manual
- 8. Staying Engaged with Sony Dcr Trv720 Camcorders Owners Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sony Dcr Trv720 Camcorders Owners Manual
- 9. Balancing eBooks and Physical Books Sony Dcr Trv720 Camcorders Owners Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sony Dcr Trv720 Camcorders Owners Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sony Dcr Trv720 Camcorders Owners Manual
 - Setting Reading Goals Sony Dcr Trv720 Camcorders Owners Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sony Dcr Trv720 Camcorders Owners Manual
 - Fact-Checking eBook Content of Sony Dcr Trv720 Camcorders Owners Manual
 - Distinguishing Credible Sources

-
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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