

SONY



CCD-TRV328

Analog Handycam® Camcorder

Everything the budding camcorder user needs can be found on the CCD-TRV328. A 2.5" SwivelScreen™ LCD is perfect for framing the action; NightShot® Plus infrared system lets you capture the image in low light or even total darkness as well as Sony's SteadyShot Image Stabilization system. Sony's exclusive InfoLithium® battery system displays the exact number of minutes available on your battery, so you never miss the shot.

FEATURES

Video Hi8™ Recording

Records outstanding video quality up to 400 lines of horizontal resolution with Hi-Fi sound on affordable Hi8 and 8mm tapes.

1/6" CCD Imager, 320K Pixels Gross

1/6" CCD imager with 200K (effective) pixels provides great detail and clarity, with exceptional analog video performance.

20X Optical/990X Digital Zoom




The optical zoom helps to bring the action up close from far away. In addition, the digital zoom interpolation means that extreme digital zooming is clearer, with less distortion than previous types of digital zooms.

2.5" SwivelScreen™ LCD Display (123K Pixels)

Provides excellent viewing clarity with improved resolution. The high-resolution 123K pixels LCD rotates up to 270-degrees for multiple viewing angles providing a sharp detailed images for monitoring or playback.

InfoLithium® Battery with AccuPower™ Meter System

 Charge the battery at any time because unlike NiCad (Nickel Cadmium) batteries Sony's rechargeable Lithium-Ion batteries are not subjected to a life shortening "memory effect". Sony's exclusive AccuPower™ meter displays the battery time remaining in minutes, in the viewfinder or the LCD screen.

▶ SteadyShot® Picture Stabilization System



Picture stabilization system that uses motion sensory to detect and compensate for camera "shake" without compromising picture quality like some other digital stabilization systems.

Multi-Language Menu

Change the menu display from English to English (Simplified), French, Spanish, Portugese, Chinese (simplified) or Korean.

Easy Dubbing

Connect the Handycam camcorder to a VCR deck to make VHS copies of your home videos quickly and easily. The camcorder will control up to 59 brands of VCRs.

NightShot® Plus Infrared System



With Sony's NightShot® Infrared system you can capture natural looking video even when shooting in low light up to 10 feet away using the built-in infrared system without the monochrome color.

Stamina® Battery Power Management System



Using the optional NP-QM91D InfoLithium® battery the CCD-TRV328 can continuously record up to 16 hours on one complete charge, providing extra long battery life.

Program AE (Auto Exposure) Modes



Program AE modes make recording easy even when filming in challenging situations. Choose from Portrait, Beach & Ski, Sports Lesson, Landscape, Spotlight, Sunset & Moon modes.

Picture Effects



Get creative when recording or playing back videos with Sony's Picture Effect modes. Effects available in Camera mode: Negative Art, Sepia, Monotone, Solarize, Slim, Stretch, Pastel and Mosaic. Effects available in Playback mode: Negative Art, Sepia, Black & White and Solarize.

End Search

Advances the video tape to the last 5 seconds of the recorded scene. This prevents accidentally recording over previous recorded videos.

Fader Effects

Enhance your personal videos by adding professional looking fader effects. Choose from Black, Mosaic, White, Monotone and Stripe.

Titling

Add professional looking titles to your videos, select from 8 preset or 2 customized titles with up to 22 characters.

Battery Information



Battery information is displayed on the LCD when charging and when the camera is turned off. The display will show how much the battery is charged in 10% increments and the recordable time left using either the LCD or the viewfinder.

Built-In White LED Light

Brightens your videos when shooting in low light with low power consumption.

Manual Focus



Allows the user to determine the focus of their choosing by adjusting the cameras focus ring allowing more creativity and/or effects. Manual focusing also allows the user to control the cameras focus in difficult situations where either the subject or environment does not allow the cameras auto-focus to perform at an optimal level.

Easy Handycam Button



Using a camcorder can be intimidating for some people, so with a press of the Easy Handycam button, most of the advanced functions of the camcorder are "locked out" leaving only the buttons essential for recording operational.

▶ STEP-UP FEATURE

CCD-TRV328

Analog Handycam® Camcorder

SPECIFICATIONS

Imaging Device: 1/6" 320K Gross Pixel CCD
Video Actual: 200K Pixels
Still Actual: N/A
F: 1.6-2.4
Focal Distance: 2.5-50mm
35mm Conversion: 42-840mm
Filter Diameter: 37mm
Optical Zoom: 20X
Digital Zoom: 990X
Focusing: Full Range Auto/Manual (Dial)
Minimum Illumination: 1 Lux (0 Lux with NightShot® Plus Infrared System)
NightShot® Infrared System: NightShot Plus
Shutter Speed: 1/60 – 1/4000 (AE Mode)
Viewfinder: Black and White, 90K Pixels
LCD: 2.5" Color (123K)
Accessory Shoe: N/A
Video Input/Output: No/Yes (S-Video, Mini)
Audio Input/Output: No/Yes (Mono, Special)
USB: N/A
USB Streaming: N/A
Headphone Jack: N/A
Mic. Input: N/A
White Balance: Auto
Exposure: Yes, Dial (24 Step)
Power Consumption (VF/LCD/VF+LCD): 1.8W/2.7W/2.9W
Dimensions (WHD): 3 3/8" x 3 7/8" x 6" (85 x 98 x 151mm)
Weight: 1 lb. 11oz. (780g) without Tape and Battery
Supplied Accessories: AC-L15 Power Adapter/In Camera Charger, NP-FM30 InfoLithium® Rechargeable Battery, Mono A/V Cable, Lens Cap, Shoulder Strap

worry FREE™

BATTERY LIFE

Battery* (Fully charged)	Continuous Record Time VF/LCD/VF+LCD	Continuous Playback Time LCD On/Off
NP-FM30	175/115/105 min	115/185 min
NP-FM50	280/185/170 min	185/295 min
NP-QM71D	675/445/415 min	445/715 min
NP-FM91/QM91D	1010/670/625 min	670/1070 min

*Results may vary depending upon conditions

OPTIONAL ACCESSORIES

AC-SC950D AC Quick Charger for Super Quick Batteries	VCL-ES06A Wide Angle Lens
AC-VQ850D AC/DC Adaptor Quick Charger	VCL-ES20A Telephoto Lens
PC-VM50 Portable AC Charger	VCL-R2037X High Grade Telephoto Lens
DCC-L50 Car Battery Adaptor Cable	VF-R37K Natural Density Filter Kit
LCS-VA2 Carrying Case	VF-37PK Polarizing Filter Kit
LCS-VA1 Carrying Case	VCT-R610 Tripod
ACC-KITFM50 Handycam Camcorder Starter Kit	VCT-R610 Lightweight Tripod
VCL-0637H Wide Angle Lens	VCT-TK1 Pocket Tripod
VCL-HG0737X High Grade Wide Angle Lens	

SONY®

Sony Electronics Inc.
16765 West Bernardo Drive
San Diego, CA 92127
www.sony.com/di
For more information:
1.800.352.SONY

©2004 Sony Electronics Inc.

Reproduction in whole or in part without written permission is prohibited. All rights reserved. Sony, AccuPower, Handycam, Hi8, InfoLithium, NightShot, Stamina, SteadyShot, SwivelScreen, and Worry Free are trademarks of Sony. Features and specifications subject to change without notice. Non-metric weights and measures are approximate.