

SONY

HANDYCAM® CAMCORDERS TR SERIES
1997 VIDEO 8®

FEATURES AND
SPECIFICATIONS
SUBJECT TO CHANGE
WITHOUT NOTICE

AUDIO/VIDEO PERFORMANCE	CCD-TR66	CCD-TR86	CCD-TR96
Video	8mm	8mm	8mm
Audio	Hi-Fi Mono	Hi-Fi Mono	Hi-Fi Mono
CCD Imaging Device (gross pixels)	1/3" (270,000)	1/4" (270,000)	1/4" (470,000)
Digital Noise Reduction	Yes	Yes	Yes
Zoom Lens (Variable Speed)	13x	15x	15x
Digital Zoom	26x	30x	30x
SteadyShot® Picture Stabilization			Yes
Full-Range Auto Focus	Yes	Yes	Yes
Digital Camera Signal Processing	Yes—10 Bit	Yes—10 Bit	Yes—10 Bit
Instant Recording	Yes	Yes	Yes
Super-Long Recording Time	Yes	Yes	Yes
Minimum Illumination (Lux) ⁴	0.6 Lux	0.6 Lux	2 Lux
5-Head System		Yes	Yes

CONVENIENCE			
LaserLink™		Yes	Yes
Viewfinder	55" Advanced Color W/ Solar Window™	55" Advanced Color W/ Solar Window™	55" Advanced Color W/ Solar Window™
3-Mode Recording	Yes	Yes	Yes
Self-Illuminating VTR Function Buttons	Yes	Yes	Yes
Date/Time, Auto Date Recording	Yes	Yes	Yes
EZ Menu Setup		Yes	Yes
Viewfinder Meters	Yes	Yes	Yes
Auto Lens Cover	Yes	Yes	Yes
Remote Control	Yes	Yes	Yes

POWER MANAGEMENT SYSTEM			
Worry-Free Recording™ System	Yes	Yes	Yes
AA Battery Holder	Yes	Yes	Yes

SPECIAL FEATURES			
Digital Picture Effects		5-Mode	5-Mode
Audio/Video Digital Fader		Yes (Black Only)	Yes (Black Only)
8-Preset Titler	Yes (Preset)	Yes (Advanced)	Yes (Advanced)
16:9 Recording		Yes	Yes

MANUAL CONTROLS			
Program Auto Exposure	3-Mode	3-Mode	3-Mode
Manual Focus		Yes/Manual (Dial)	Yes/Manual (Dial)

3-MODE RECORDING: Start/Stop, Snap, and 5-second recording.

5-HEAD RECORDING SYSTEM: utilizes 5 heads for maximum picture quality in both the SP and LP record modes, and "glitch-free" editing starts and stops.



AA BATTERY HOLDER: even without a charged battery, the camcorder will run for up to 2 hours on six AA batteries.²

ADVANCED COLOR VIEWFINDER WITH SOLAR WINDOW™ PANEL: high resolution LCD and 1.5x magnifying lens provide a sharper, clearer, full-color view of video subjects. The Solar Window™ Panel allows sunlight to brighten the viewfinder image, making it easier to see in bright sunlight.

ADVANCED PRESET TITLER: allows for more creativity with videos. 8 preset with 2 custom titles on CCD-TR86/96.

AUTO LENS COVER: protects the optical lens and opens automatically when camera mode is selected.

BEEP FUNCTION: confirms that camcorder recording has started or stopped.

CONTROL L (LANC): connector for editing interface; connects to Sony VCRs and editing controllers with a Control L jack.

DATE/TIME RECORDING: record date or time; Auto Date can be set to record the date on your movies automatically at the start of each day's recording.

DIGITAL CAMERA SIGNAL PROCESSING: advanced 10-bit Sony technology automatically performs all internal processing digitally—focusing, exposure control (both aperture size and gain control), and color (white balance) control.

DIGITAL NOISE REDUCTION: reduces color noise by 20% for better picture quality.

EDIT SEARCH™ FEATURE: allows for tape review in forward and reverse, without leaving camera mode—for quick on-the-spot retakes.

FIVE-SECOND RECORDING: allows you to record a 5-second scene or locating shot without worrying about when to stop the camcorder.

FLYING ERASE™ HEAD: every time recording is stopped and started, Flying Erase head eliminates "rainbow noise" glitches for smooth transitions.



Without Flying Erase Head



With Flying Erase Head

FULL-RANGE AUTO FOCUS: fast, accurate, automatic focusing from macro closeup to infinity.

Hi-Fi MONO: superior Hi-Fi audio quality using Frequency Modulation (FM) technology.

Hi-Fi STEREO⁵: superior Hi-Fi audio quality using Frequency Modulation (FM) technology in stereo for greater realism.

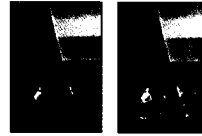
HYPER-PRECISION CCD: 470,000 pixels allow camera to capture more detail and superior sharpness at full 26x or 30x zoom ratio, and achieve SteadyShot® picture stabilization without compromising picture quality.

LASERLINK™ WIRELESS CONNECTION SYSTEM: lets you beam your videos from your camcorder to your TV without need for wires from up to 16 feet away.



LCD INFO PANEL: displays camcorder functions at a glance for easy shooting and playback.

MANUAL BACKLIGHT CONTROL BUTTON: compensates for strong light behind subject.



Manual Backlight Control on

MINIMUM ILLUMINATION (LUX³): all Handycam Camcorders perform with amazing sensitivity even in extremely low light.

PROGRAM AUTO EXPOSURE (3- OR 6-MODE AE): Sony's Program AE system provides 3 or 6 auto positions for a variety of shooting situations.



1. Sports



2. High-Speed Shutter



3. Twilight Mode

QUICK RECORD: recording starts instantly, to help make sure shots are never missed.

REDUCED POWER CONSUMPTION: record up to 5 hours using an optional NP-98 Ni-Cad battery (Ni-Cad cameras only).¹

REMOTE CONTROL: full-function wireless remote control that lets you put yourself in the picture.

SELF-ILLUMINATING FUNCTION BUTTONS: located on the top of the camcorder, function buttons illuminate only when needed (in player mode).



STEADYSHOT® PICTURE STABILIZATION: eliminates hand shake without compromising picture quality.



SUPER-LONG BATTERY LIFE: that lets you record up to 5 full hours with one optional battery.¹



SUPER-LONG RECORDING TIME: allows Handycam Camcorders to record up to 5 continuous hours on one videocassette.¹



VIEWFINDER METERS: conveniently located in the camcorder viewfinder.

ZOOM: 13x lets you zoom in on your subject or pull back for wide shots—Precision 26x or 30x Digital Zoom uses a Hyper-Precision CCD to maintain excellent image detail.

HANDYCAM® TR CAMCORDER SERIES:

The Perfect Traveling Companions.

TR is short for travel. And when it comes to the perfect travel partners, nothing beats the Sony Handycam TR Series of Camcorders. Incredibly small and lightweight, but packed with

features that make it easy to capture great video, the TR Series of Handycam Camcorders make great video-on-the-go a thing of beauty and ease.

worry FREE

WORRY-FREE RECORDING™:

Perfect Video—Without a Worry

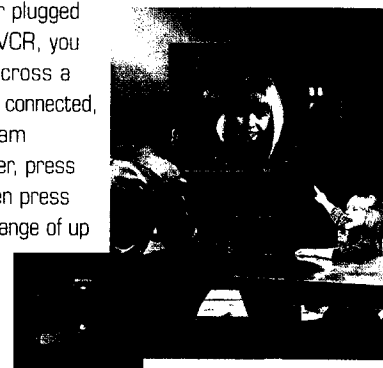
Whether leaving for a long vacation or heading out for a day at the beach, the last thing you want to worry about is your camcorder. That's exactly the thinking behind Sony's exclusive Worry-Free Recording™ System. Designed as a complete and comprehensive system of technologically advanced features, WFR ensures your camcorder is ready to roll when you are, virtually guaranteeing that you'll never miss those once-in-a-lifetime moments. Only Sony Handycam Camcorders with Worry-Free Recording deliver:

- **Super-Long Recording Time** that allows Handycam Camcorders to record up to 5 continuous hours on 1 videocassette¹
- **Super-Long Battery Life** that lets you record up to 5 full hours with one optional battery¹
- **5-Head Recording System** (see description)
- **LaserLink™ Wireless Connection System** (see description)
- **Supplied Battery Holder** that uses six standard AA cells to operate the Handycam Camcorder for up to an additional 2 hours if battery runs out²

LaserLink™ Wireless Connection System



The new LaserLink Wireless Connection System eliminates the need to hook up your Sony Handycam Camcorder to your TV to view your videos. With the optional IFT-R10 infrared wireless receiver plugged directly into your TV or VCR, you can beam your videos across a room without wires. Once connected, just point your Handycam Camcorder at the receiver, press the LaserLink button, then press play. With an operating range of up to 16 feet, transmitting your videos from your favorite chair has never been this Worry-Free.



5-Head Recording

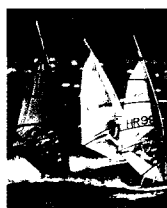


The 5-Head System utilizes two recording heads for a standard recording mode of up to 2.5 hours. The long-record mode uses two separate specially designed heads for maximum picture quality when recording up to 5 hours. The remaining Flying Erase™ Head provides "glitch-free" starts and stops.

worry FREE

AVAILABLE FEATURES:

SteadyShot® Picture Stabilization



With

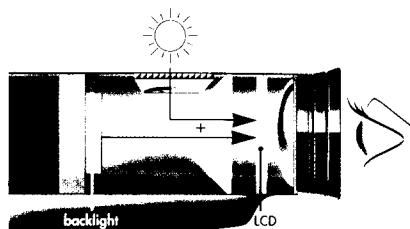


Without

- Smooths and steadies images while recording, virtually eliminating effects of camera shake.
- Built-in motion sensors and Hyper-Precision CCD technology—with 470,000 pixels—produce clear, highly-detailed pictures without the compromise in image size or quality that can occur with other camcorders.

Advanced Color Viewfinder with Solar Window™ Panel

With 113K pixels to provide excellent color and resolution, the Advanced Color Viewfinder lets you see vivid, realistic images. The Sony exclusive Solar Window Panel allows ambient light into the viewfinder to brighten the display. So even on the brightest



days, when other viewfinders appear washed out, the images in Sony's viewfinder remain bright and vivid.

Precision Digital Zoom: from 26x to 30x

- The power to zoom in incredibly close without adding the grainy, mosaic texture experienced with other camcorders.
- Features a Hyper-Precision CCD with 470,000 pixels.³



Regular View



Precision 26x Digital Zoom

DNR Turns Down Color Noise

- A real technology breakthrough from Sony, Digital Noise Reduction (DNR) reduces color noise by 20%, resulting in cleaner, more vivid color pictures.

8mm: The Format of Choice

- 8mm cassette is 1/5 the size of a standard VHS tape.
- Records up to 5 hours in LP mode—2 1/2 times longer than VHS-C.
- Captures rich, dynamic High Fidelity sound using Frequency Modulation (FM) technology, so voices are more natural and background sounds are more realistic.

CCD-TR66

Key Features

- Worry-Free Recording™ System
- Super-Long Recording Time
- Precision 26x Digital Zoom
- Digital Noise Reduction
- Advanced Color Viewfinder with Solar Window™ Panel
- LCD Info Panel
- Remote Control



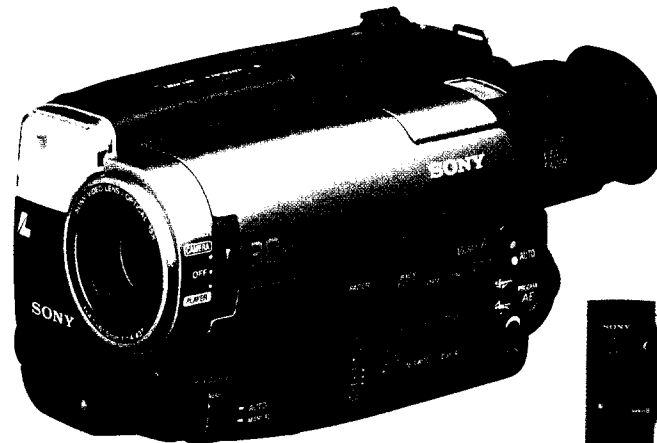
CCD-TR86

Key Features

- Worry-Free Recording™ System
- Super-Long Recording Time
- Precision 30x Digital Zoom
- Digital Noise Reduction
- LCD Info Panel
- Advanced Color Viewfinder with Solar Window Panel

Step-up Features from CCD-TR66

- 5-Head Recording System
- LaserLink™ Wireless Connection System
- Precision 30x Digital Zoom
- Built-in Video Light



CCD-TR96

Key Features

- Worry-Free Recording™ System
- Super-Long Recording Time
- 5-Head Recording System
- LaserLink™ Wireless Connection System
- SteadyShot® Stabilization
- Advanced Color Viewfinder with Solar Window Panel
- Precision 30x Digital Zoom
- Built-in Video Light
- Digital Noise Reduction
- LCD Info Panel

Step-up Features from CCD-TR86

- SteadyShot® Stabilization



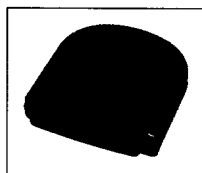
SPECIFICATIONS

Lens	13:1, variable speed (5-10 sec.) power zoom lens; f = 5.3-68.9mm; F 1.8-2.8, filter diameter 37mm (CCD-TR66); 15:1 variable speed (3-14.1 sec.) power zoom lens; f = 4.1-61.5mm; F 1.4-2.4, filter diameter 37mm (CCD-TR66/96)
Video Signal	NTSC standard ¹
Video Recording System	Helical scanning FM system
Audio Recording System	Helical scanning FM system
Video Output	Phono Jack (CCD-TR66/86/96)
Audio Output	Phono Jack (CCD-TR66/86/96)
Control L (LANC) Terminal	Stereo Mini-minijack
Mic Jack	Minijack, Low Impedance Mono — Plug-in power (CCD-TR66/86/96)
Power Requirements	6V battery pack; 7.5V AC Power Adapter (CCD-TR66/86/96)
Microphone	Electret condenser microphone, Mono (CCD-TR66/86/96)

SUPPLIED ACCESSORIES

	CCD-TR66/86/96
AC Adapter	AC-V16/16A
Rechargeable Battery	NP-33
Vanadium Lithium Battery	CR2025
Wireless Remote (2X AA)	RMT-713
Shoulder Strap	Included
A/V Cable	Included (Mono)
AA Battery Case	Included

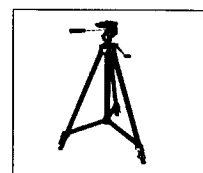
OPTIONAL ACCESSORIES



IFT-R10: LaserLink™ Wireless Receiver
• 16-Foot Range



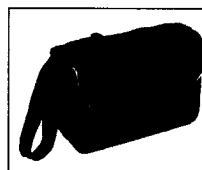
NP-98WF: Ni-Cad Rechargeable Battery
• 3000mAh
• No Memory Effect
• PG-150 Cassette Included



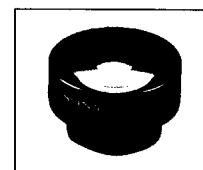
VCT-R610: Remote Capable Tripod
• Control LANC Compatible



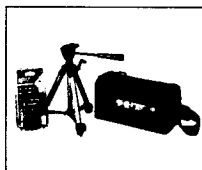
SPK-TRV1: Water-Resistant Sport Pack
• TR and Vision Models



LCS-HG1: Soft-Sided Carrying Case



VCL-R2037
• Telephoto
• 2x
• Fits 37mm Lens



ACC-KIT65
Includes:
• Full-Size Tripod
• NP-68 Rechargeable Battery
• Soft Carrying Case



DCP-77: DC Car Adapter for Ni-Cad Batteries



VCL-0637H: 0.6x Wide-Angle Lens
• Fits 37mm Lens

SONY

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Features and specifications are subject to change without notice. Non-metric weights and measurements are approximate. For operation use and feature description see user's manual.

Sony, Edit Search, Flying Erase, Handycam, Solar Window, SteadyShot, LaserLink, and Worry-Free Recording are trademarks of Sony.

¹ Reduced Power Consumption: Actual time may vary, using optional NP-4500 battery.

² AA Battery Holder: Actual time may vary, using optional Sony alkaline batteries.

³ Precision 26x to 30x Digital Zoom: At comparable zoom ratios.

⁴ Minimum Illumination: There is no standard procedure for testing minimum illumination.

⁵ Stereo: Stereo sound playback requires the use of a stereo-capable TV/monitor.

⁶ Direct Playback: On NTSC American Standard TV.