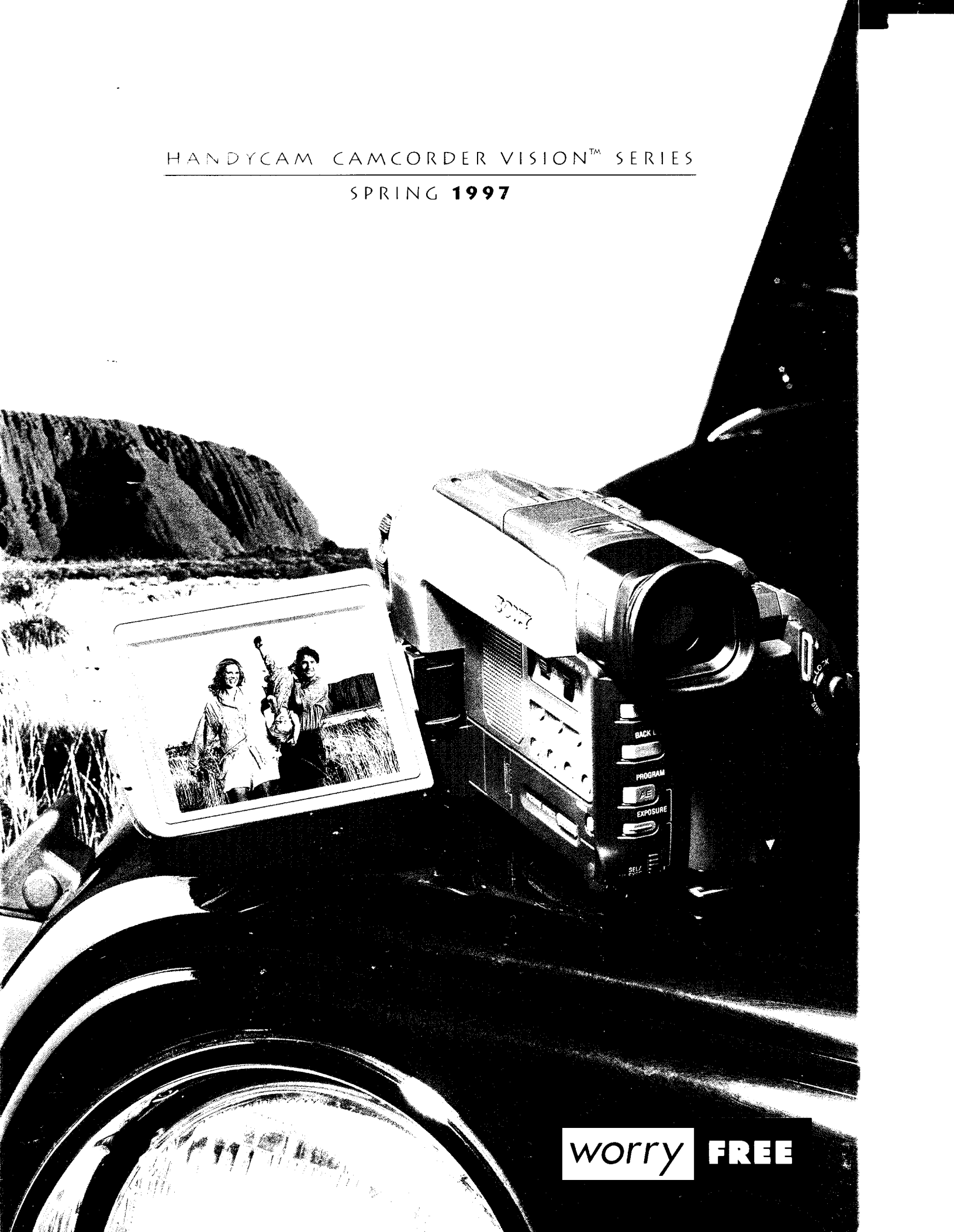


HANDYCAM CAMCORDER VISION™ SERIES

SPRING 1997

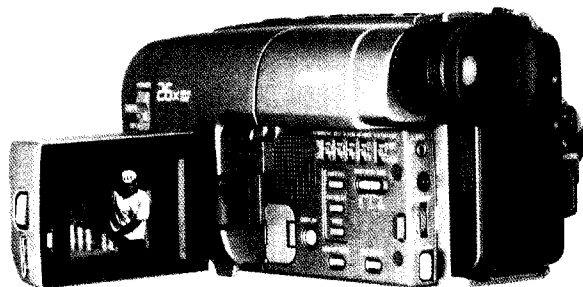
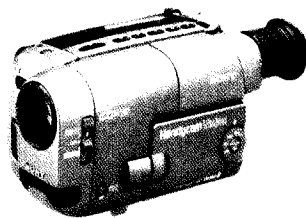


worry **FREE**

## CCD-TRV12

### KEY FEATURES:

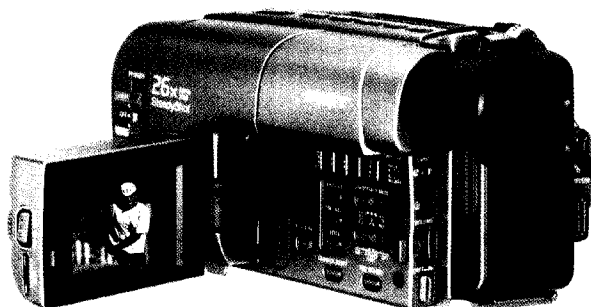
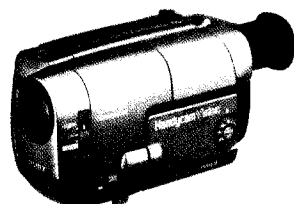
- 2 1/2" SwivelScreen™ Color LCD Monitor
- Worry-Free Recording™ System
- Super-Long Recording Time
- 26x Digital Zoom
- Digital Noise Reduction
- Preset Titler



## CCD-TRV22

### KEY FEATURES:

- 2 1/2" SwivelScreen™ Color LCD Monitor
- Worry-Free Recording™ System
- Super-Long Recording Time
- Digital Noise Reduction
- Precision 26x Digital Zoom



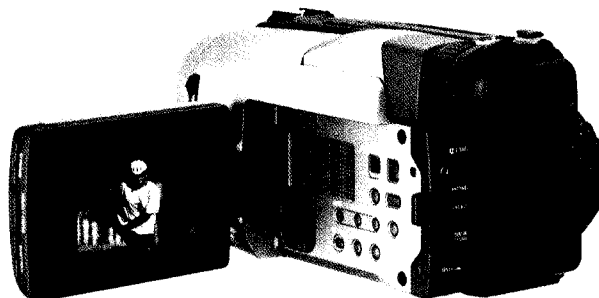
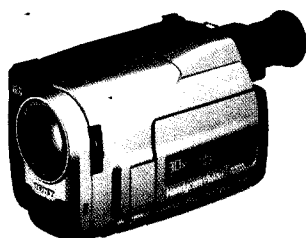
## CCD-TRV32

### KEY FEATURES:

- Worry-Free Recording™ System
- Super-Long Recording Time
- SteadyShot® Stabilization
- Digital Noise Reduction

### STEP-UP FEATURES FROM CCD-TRV22:

- 3" SwivelScreen™ Color LCD Monitor
- 5-Head Recording System
- Precision 30x Digital Zoom
- Advanced Custom Titler/Picture Effects
- LCD Info Panel



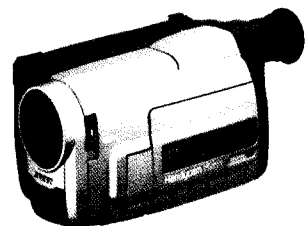
## CCD-TRV52

### KEY FEATURES:

- Worry-Free Recording™ System
- Super-Long Recording Time
- SteadyShot® Stabilization
- 5-Head Recording System
- Precision 30x Digital Zoom
- Digital Noise Reduction

### STEP-UP FEATURES FROM CCD-TRV32:

- 3 1/2" SwivelScreen™ Color LCD Monitor
- LaserLink™ Wireless Connection System
- Hi-Fi Stereo



## CCD-TRV62

### KEY FEATURES:

- 3½" SwivelScreen™ Color LCD Monitor
- Hi-Fi Stereo Sound
- Worry-Free Recording™ System
- SteadyShot® Stabilization
- LaserLink™ Wireless Connection
- 5-Head Recording System
- Precision 30x Digital Zoom

### STEP-UP FEATURES FROM CCD-TRV52

- Hi8™ Format
- AccuPower™ System
- Super DNR™



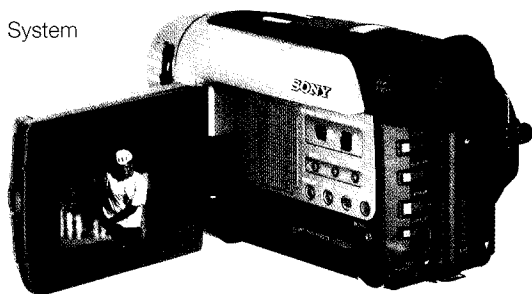
## CCD-TRV72

### KEY FEATURES:

- 3½" SwivelScreen™ Color LCD Monitor
- Hi8™ Format
- Hi-Fi Stereo Sound
- Worry-Free Recording™ System
- SteadyShot® Stabilization
- LaserLink™ Wireless Connection System
- 5-Head Recording System
- Precision 30x Digital Zoom

### STEP-UP FEATURES FROM CCD-TRV62

- Advanced Color Viewfinder with Solar Window™ Panel



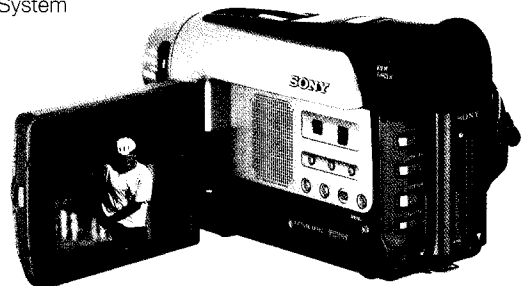
## CCD-TRV82

### KEY FEATURES:

- Hi8™ Format
- Hi-Fi Stereo Sound
- Worry-Free Recording™ System
- SteadyShot® Stabilization
- LaserLink™ Wireless Connection System
- 5-Head Recording System
- Precision 30x Digital Zoom

### STEP-UP FEATURES FROM CCD-TRV72

- 4" SwivelScreen™ Color LCD Monitor



## A VISION FULLY REALIZED

Sony's most advanced Handycam Vision Camcorders offer high-performance features and functions that deliver professional-quality videos while remaining incredibly user-friendly.

### AccuPower™ SYSTEM

Available on Sony Hi8™ Handycam Camcorders, this Lithium-Ion precision power-management feature displays the amount of power remaining in the battery within an accuracy of 1 minute. The information is displayed on the viewfinder or LCD monitor for convenience.

### INTELLIGENT ACCESSORY SHOE

Once attached to the camcorder, the shoe communicates signals (such as power, power on/off, Control L, and audio) between the camcorder and accessories to simplify usage.

### OPTIMUM RECORDING CONTROL

Each time ORC is activated, a short recording and playback are performed. This analyzes the condition of the video heads and the tape, and makes adjustments to maximize performance, resulting in longer life for the video heads, as well as improved picture quality.

### TIME-BASE CORRECTION

TBC compensates for unwanted picture jitter during playback by storing the video in a memory field and releasing the signal at timed intervals. The result is a more stable, professional-looking picture with minimal jitter. (Available on CCD-TRV62/72/82.)

### SUPER DIGITAL NOISE REDUCTION

Similar to standard DNR, Super DNR significantly reduces video chroma noise during playback as well as during recording, resulting in cleaner, more vivid color pictures. (Available on CCD-TRV62/72/82.)

### VIDEO Hi8™ FORMAT

With a Hi8™ Handycam Vision Camcorder, you'll record over 400 lines of horizontal resolution—better than the broadcast TV standard. Sony Hi8 camcorders also record in Hi-Fi stereo, giving you true left/right separation for more realistic sound.

## 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 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 all this:

- **Super-Long Recording Time**

Allows Handycam Camcorders to record up to 5 continuous hours on one videocassette¹

- **Super-Long Battery Life**

Lets you record up to 5 full hours with one optional battery¹

- **5-Head Recording System**

(see description)

- **LaserLink™ Wireless Connection System**

(see description)

- **SteadyShot® Picture Stabilization**

(see description)

- **Supplied Battery Holder**

Uses six standard AA cells to operate the Handycam Camcorder for up to an additional 2 hours if the battery runs out²

## 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.



## STEADYSHOT® PICTURE STABILIZATION



- 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.



WITH



WITHOUT

## 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 the coffee table or your favorite chair has never been this "Worry Free."



## 8MM: THE FORMAT OF CHOICE

- 8mm cassette is 1/3 the size of a standard VHS tape.
- Records up to 5 hours in LP mode—2½ 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.



**HANDYCAM VISION CAMCORDERS DOUBLE AS PERSONAL, PORTABLE MOVIE THEATERS FOR THOUSANDS OF PRE-RECORDED 8MM HIT TITLES. TO RECEIVE A FREE CATALOG, CALL CINEMA 8™ AT 1-800-866-7427.**

## SONY HANDYCAM® VISION™ CAMCORDER SERIES:

### THE SHOW GOES ON. ANYTIME. ANYWHERE.

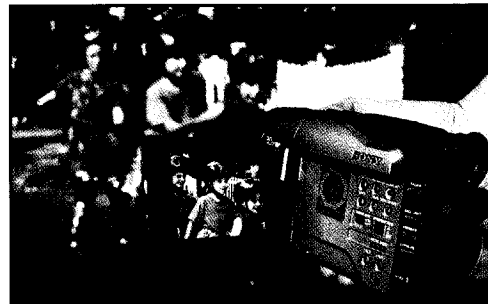
Sony Handycam Vision Camcorders feature the revolutionary SwivelScreen™ monitor. The big, color LCD screen provides the freedom to shoot superior home video from any angle, as well as the freedom to play back and enjoy memorable video seconds

after it's been taped. Couple all that with trusted Sony technology, and features that make Sony Handycam Camcorders the most sophisticated yet user-friendly camcorders on the market, and you've got home video that's truly visionary.

### SONY SWIVELSCREEN™ MONITOR



SWIVELSCREEN MONITOR FLIPS OUT  
TO REVEAL BIG-SCREEN IMAGES...



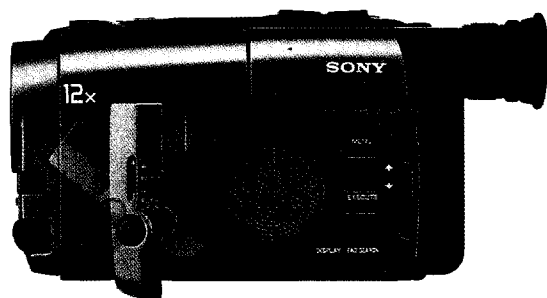
TILTS UP FOR EASY ONE-HANDED,  
LOW-ANGLE SHOOTING...



FACES FORWARD SO YOU CAN PUT  
YOURSELF IN THE PICTURE...



AND WITH INSTANT PLAYBACK YOU CAN ENJOY AND SHARE  
THE ACTION JUST MOMENTS AFTER YOU'VE RECORDED IT.



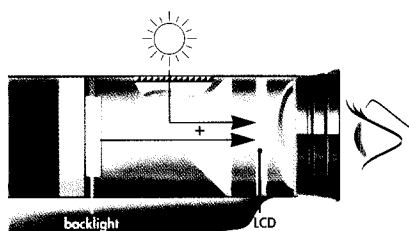
### SWIVELSCREEN FEATURES

- Revolutionary SwivelScreen color LCD flips out and rotates 270°, displaying brilliant, high-detail images from any angle.
- A simple twist folds the monitor back against the camera for convenient playback viewing.
- Unlike competing camcorders, Handycam Vision Camcorders come with a secondary viewfinder that can be used for shooting in bright sunlight.
- Mirror Mode lets subject see him or herself while viewfinder is also activated.

## AVAILABLE FEATURES:

### 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 26X DIGITAL ZOOM

- The power to zoom in incredibly close without adding the grainy, mosaic texture experienced with other camcorders.



REGULAR ZOOM



PRECISION 26X DIGITAL ZOOM

### DNR TURNS DOWN THE COLOR NOISE

- Digital Noise Reduction (DNR) reduces color noise by 20%, resulting in cleaner, more vivid color pictures.

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

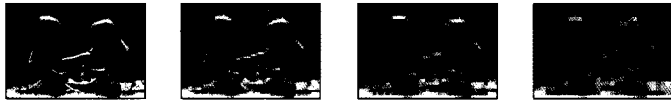
**5-HEAD RECORDING SYSTEM:** utilizes 5 heads for maximum picture quality in both SP and LP recording modes, and "glitch-free" editing starts and stops.



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

**ADVANCED PRESET TITLER:** allows for more creativity with videos. 8-preset with 2 custom titles on CCD-TRV 32/52/62/72/82.

**AUDIO/VIDEO DIGITAL FADER:** fade to black or mosaic for creative scene transitions.



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

**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.

**DIGITAL PICTURE EFFECTS:** (On CCD-TRV62/72/82) 8-digital effect modes provide exciting creative options. Included (in addition to normal mode) are:



1. B&W      2. Mosaic      3. Neg Art      4. Sepia



5. Solarize      6. Stretch      7. Slim      8. Pastel

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

**END SEARCH:** automatically advances the tape to the last frame.

**EZ MENU SETUP:** allows for the presetting of general camcorder functions by way of an on-screen display.

**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.

**Hi8™:** better horizontal resolution than broadcast TV standard.

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

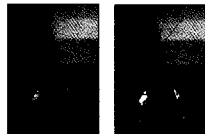
**Hi-Fi STEREO:** superior Hi-Fi audio quality using Frequency Modulation (FM) technology in stereo for greater realism.

**HYPER-PRECISION CCD:** 470,000 pixels allows 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 from up to 16 feet away without need for wires or cables.



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



MANUAL BACKLIGHT CONTROL ON

**MANUAL FOCUS:** allows for a smooth "hands on" creative feel.

**MINIMUM ILLUMINATION (LUX<sup>3</sup>):** all Handycam Camcorders perform with amazing sensitivity even in extremely low light.

**NOISELESS STILL/SLOW MOTION:** allows for crystal-clear freeze frame and slow motion on the LCD monitor.

**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) with LCD off.<sup>1</sup>

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

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



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



**SUPER DIGITAL NOISE REDUCTION:** works both in record and playback to improve picture quality. Even tapes recorded on other camcorders will benefit from this feature.

**SUPER-LONG BATTERY LIFE:** lets you record up to 5 full hours with one optional Ni-Cad battery, (NP-98WF) or up to 8 hours with one optional Lithium-Ion battery (NP-F930) on CCD-TRV 62/72/82.



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



**VIEWFINDER METERS:** conveniently located in the camcorder viewfinder.

**ZOOM:** 13x or 15x 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.

AUDIO/VIDEO PERFORMANCE		CCD-TRV12/22	CCD-TRV32	CCD-TRV52	CCD-TRV62	CCD-TRV72/82
Video		8mm	8mm	8mm	Hi8	Hi8
Audio		Hi-Fi Mono	Hi-Fi Mono	Hi-Fi Stereo	Hi-Fi Stereo	Hi-Fi Stereo
CCD Imaging Device (gross pixels)		1/2" (270,000)/(470,000)	1/2" (470,000)	1/2" (470,000)	1/2" (470,000)	1/2" (470,000)
Digital Noise Reduction		Yes	Yes	Yes	Yes/Super DNR	Yes/Super DNR
Time Base Correction					Yes	Yes
Optimum Recording Control					Yes (Menu)	Yes (Menu)
Zoom Lens (Variable Speed)		13x	15x	15x	15x	15x
Digital Zoom		26x	30x	30x	30x	30x
SteadyShot® Picture Stabilization		Yes (CCD-TRV22)	Yes	Yes	Yes	Yes
Full-Range Auto Focus		Yes	Yes	Yes	Yes	Yes
Digital Camera Signal Processing		Yes—10 Bit	Yes—10 Bit	Yes—10 Bit	Yes—10 Bit	Yes—10 Bit
Instant Recording		Yes	Yes	Yes	Yes	Yes
Super-Long Recording Time		Yes	Yes	Yes	Yes	Yes
Minimum Illumination (Lux) <sup>2</sup>		0.6 Lux/2 Lux	2 Lux	2 Lux	2 Lux	2 Lux
5-Head System			Yes	Yes	Yes	Yes

CONVENIENCE						
SwivelScreen™ Monitor Size (diagonal)		2.5"	3"	3.5"	3.5"	3.5"/4"
LaserLink™				Yes	Yes	Yes
Viewfinder		B/W	B/W	B/W	B/W	Advanced Color With Solar Window™
ACVF with Power Save						Yes
Built-in Speaker		Yes	Yes	Yes	Yes	Yes
End Search		Yes	Yes	Yes	Yes	Yes
3-Mode Recording		Yes	Yes	Yes	Yes	Yes
Self-Illuminating VTR Function Buttons			Yes	Yes	Yes	Yes
Date/Time, Auto Date Recording		Yes	Yes	Yes	Yes	Yes
Viewfinder Meters		Yes	Yes	Yes	Yes	Yes
Intelligent Accessory Shoe			Yes (Cold Shoe)	Yes (Cold Shoe)	Yes (Intelligent Shoe)	Yes (Intelligent Shoe)
Auto Lens Cover		Yes	Yes	Yes	Yes	Yes
Remote Control		Yes	Yes	Yes	Yes	Yes

POWER MANAGEMENT SYSTEM						
AA Battery Holder		Yes	Yes	Yes	Yes	Yes
Reduced Power Consumption/Voltage <sup>1</sup>		Yes	Yes	Yes	Yes	Yes

SPECIAL FEATURES						
Noiseless Still/Slow Motion in LCD				Yes	Yes	
Digital Picture Effects			5-Mode	5-Mode	8-Mode	8-Mode
Audio/Video Digital Fader			Yes (Black Only)	Yes (Black Only)	Yes (Black/Mosaic)	Yes (Black/Mosaic)
8-Preset Titler		Yes	Yes (Advanced)	Yes (Advanced)	Yes (Advanced)	Yes (Advanced)
16:9 Recording			Yes	Yes	Yes	Yes

MANUAL CONTROLS						
Program Auto Exposure		3-Mode	3-Mode	3-Mode	6-Mode	6-Mode
Manual Focus			Yes (Manual/Dial)	Yes (Manual/Dial)	Yes (Manual/Dial)	Yes (Manual/Dial)
Manual Exposure					Yes (Manual/Dial)	Yes (Manual/Dial)

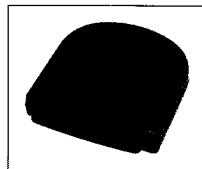
## SPECIFICATIONS

<b>Lens</b>	13:1 variable speed (5-10 sec.) power zoom lens, f = 5.3-68.9mm, F 1.8-2.8, filter diameter 37mm (CCD-TRV12/22/32/52/62/72/82); 15:1 variable speed (3-14.1 sec.) power zoom lens, f = 4.161.5mm, F 1.4-2.4, filter diameter 37mm (CCD-TRV32/52/62/72/82)
<b>Video Signal</b>	NTSC standard*
<b>Video Recording System</b>	Helical scanning FM system
<b>Audio Recording System</b>	Helical scanning FM system
<b>Video Output</b>	Phono jack (CCD-TRV12/22/32/52/62/72/82); S-Video (CCD-TRV62/72/82)
<b>Video Input</b>	Phono jack (CCD-TRV62/72/82); S-Video (CCD-TRV62/72/82)
<b>Audio Output</b>	Phono jack, Mono (CCD-TRV12/22/32); Phono jack, Stereo (CCD-TRV52/62/72/82)
<b>Audio Input</b>	Phono jack, Stereo (CCD-TRV62/72/82)
<b>Control L (LANC) Terminal</b>	Stereo Mini-minijack
<b>Headphone Jack</b>	Minijack, Mono (CCD-TRV12/22/32) Minijack, Stereo (CCD-TRV52/62/72/82)
<b>Mic Jack</b>	Minijack, Low Impedance, Mono (CCD-TRV12/22/32); Minijack, Low Impedance, Stereo (CCD-TRV52/62/72/82)
<b>Power Requirements</b>	6V (battery pack); 7.5V AC Power Adapter (CCD-TRV12/22/32/52); 7.2V battery pack; 6.5V AC Power Adapter (CCD-TRV62/72/82)
<b>Microphone</b>	Electret condenser microphone, Mono (CCD-TRV12/22/32); Stereo (CCD-TRV52); Stereo with wind position (CCD-TRV62/72/82)

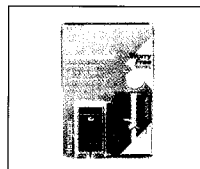
## SUPPLIED ACCESSORIES

	CCD-TRV12/22/32/52	CCD-TRV62/72/82
<b>AC Adapter</b>	AC-V16/16A	AC-V316
<b>Rechargeable Battery</b>	NP-33	NP-F530
<b>Lithium Battery (built in)</b>	CR2025	CR2025
<b>Wireless Remote (2X AA)</b>	RMT-713	RMT-708/715
<b>Shoulder Strap</b>	Included	Included
<b>A/V Stereo Cable</b>	Included (Mono) Included (Stereo) CCD-TRV52	Included (Stereo)
<b>AA Battery Holder</b>	Included	Included

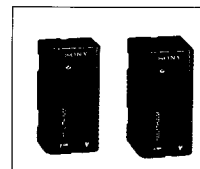
## OPTIONAL ACCESSORIES



**IFT-R10: LASERLINK™ WIRELESS RECEIVER**  
• 16-Foot Range



**NP-98WF: NI-CAD RECHARGEABLE BATTERY**  
• 3000mAh  
• No Memory Effect  
• P6-150 Cassette Included

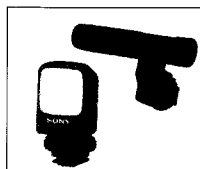


**NP-F730: RECHARGEABLE LITHIUM-ION BATTERY**  
• AccuPower™ System  
• 2700mAh

**NP-F930: RECHARGEABLE LITHIUM-ION BATTERY**  
• AccuPower™ System  
• 4050mAh

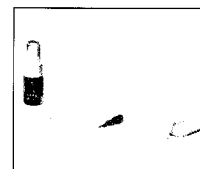


**SPK-TRV1: WATER-RESISTANT SPORT PACK**  
• TR and Vision Models



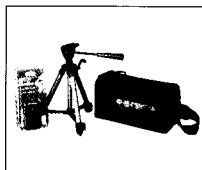
**HVL-53D: INTELLIGENT VIDEO LIGHT (3 WATT)**

**ECM-HG: INTELLIGENT MICROPHONE (VARIABLE PICK-UP PATTERN)**



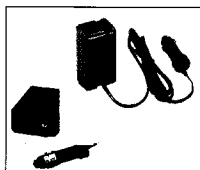
**ACC-KITV1**

- INCLUDES:**
- LCD Cleaning Cloth
  - LCD Cleaning Fluid
  - "How-To" Videotape
  - Soft Carrying Case



**ACC-KIT65**  
**INCLUDES:**

- Full-Size Tripod
- NP-68 Rechargeable Battery
- Soft Carrying Case



**DCC-515A: DC CAR ADAPTER FOR LITHIUM-ION BATTERIES (CCD-TRV62/82)**

**DCC-77: DC CAR ADAPTER FOR NI-CAD BATTERIES (CCD-TRV12/22/32/52)**



**VCL-0637H: 0.6x WIDE-ANGLE LENS**  
• Fits 37mm Lens

© 1997 Sony Electronics Inc. Reproduction in whole or in part without written permission is prohibited. All rights reserved.

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, Vision, SteadyShot, SwivelScreen, LaserLink, AccuPower, Solar Window, Worry-Free Recording, and video Hi8 are trademarks of Sony.

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

AA Battery Holder: Actual time may vary, with LCD monitor off, using optional Sony alkaline batteries.

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

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

\* Direct Playback: On NTSC American Standard TV

# SONY

Sony Electronics, Inc.  
1 Sony Drive  
Park Ridge, NJ 07656  
<http://www.sony.com/camcorder>

C8414  
Printed in USA 1/97