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SONY HANDYCAM[®] FIRST IN CAMCORDERS

In 1985 Sony introduced its first one-piece consumer camcorder and spearheaded the U.S. camcorder market. Seventeen years later Sony remains the market leader in consumer camcorders worldwide. The following are but a few examples of why Sony Handycam camcorders are first in camcorders.

- In 1983 Sony introduced the Betamovie[®] camcorder: the first truly portable, untethered video recording device.
- Sony created the first Hi8[™] consumer camcorder in 1988 (CCD-V99).
- Travelers were thrilled when Sony introduced the first travel-sized camcorder (CCD-TR5) in 1989 – smaller and lighter than any camcorder available at that time.
- Sony introduced the first three-CCD (charge couple device) camcorder (CCD-VX3) in 1992, offering broadcast quality video to consumers at a fraction of the cost of professional equipment.
- For added convenience and comfortable video recording, Sony unveiled the first camcorder featuring a fold-out SwivelScreen[™] screen LCD display (CCD-FX730V) in 1993.
- Sony introduced the first Mini DV camcorder, providing users with an ultracompact format offering high quality digital video and CD-like sound (DCR-VX1000) in 1995.
- Sony revolutionized the digital video camcorder market in 1999 with the introduction of the Digital8[®] format. This innovative format allows for the recording of digital video on inexpensive Hi8[™]/8mm tapes and backward compatibility to play back Hi8/8mm analog tapes.
- Continuing to lead the marketplace, Sony developed the first camcorder with a MegaPixel CCD in 1998, which not only improved the image quality of the video but also enhanced the still image resolution to offer consumers high-quality still pictures.
- Sony is the most trusted consumer technology brand in America according to a recent survey conducted by Forrester analyst group.
- In October 2001, the Technical Committee of the Academy of Television Arts and Sciences recognized Sony Handycam[®] camcorders by presenting an Emmy award for outstanding achievement in the technological advancement of consumer camcorders.
- According to the annual consumer survey known as the Harris Poll, Sony has once again been named as the “Best Brand” in America for the second year in a row and the fourth time in six years. In the seven years since the Harris Poll began asking this question, Sony has never been lower than third.

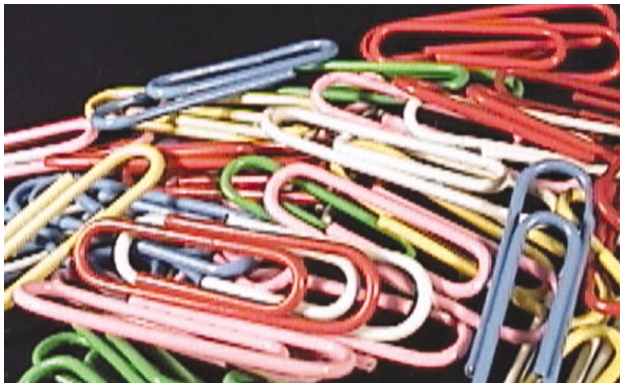
HIS & DIGITAL8 HANDYCAM CAMCORDERS

MegaPixel

Again, Sony leads the way by expanding the number of MegaPixel Handycam Camcorders offered in 2002. Featured at new lower price points, the MegaPixel CCD imager provides superior digital quality video from the Digital8 format. MegaPixel improves the recording capability up to 520 lines of horizontal resolution, providing outstanding digital video quality.

The improvement is easily demonstrated by comparing recordings made with a MegaPixel-equipped model and a comparable model with a conventional imager. The MegaPixel imager provides for more robust color reproduction and improved resolution and detail, thanks to its Advanced HAD CCD Imager with 1.07 million pixels. This realism is also captured on still images, which MegaPixel equipped models store on Memory Stick® digital media.

Take a look at the examples provided and see the improvement that MegaPixel makes!



640 x 480



1 MegaPixel, 1152 x 864

USB Streaming

Use the new USB Streaming feature on select Handycam® Camcorders to broadcast pictures and send pre-recorded video during a personal video conference using software like Microsoft's® NetMeeting™. This new feature is very easy to use and adds value to your customer's purchase. It's like having a web-based video-conferencing system!

USB Streaming allows the user to transmit live video and audio in a networked environment or over the Internet. In most cases, it provides better picture quality than a standard "web cam" and adds the ability to play back pre-recorded tapes during the transmission. Additionally, the Handycam® camcorder can capture MPEG Movies or still images transferred during the personal video conference.

USB Streaming provides new opportunities to share videos with your family and friends, make presentations and communicate using the Internet.

Available on select models.

Color Slow Shutter

Substantial improvement in picture quality and color rendition of available low light video recording is now possible with Color Slow Shutter. Unlike recordings using Super NightShot, the subject is recorded and viewed in color. This feature is easily demonstrated by switching the Color Slow Shutter circuit "on" and viewing through the viewfinder or SwivelScreen® LCD display. Now, you have two options to choose from when recording in low light and no light situations.

Available on select models.

MPEG MovieEX

Now you can record MPEG movies up to the capacity of the Memory Stick® media. Choose between the Video Mail mode at 160 x 112 resolution for a maximum record time of 85 minutes on a 128MB Memory Stick®. Or, for better picture quality, and a larger viewing area, select Presentation mode for 20 minutes of continuous recording at the higher 320 x 240 resolution. Either way, enjoy extended MPEG recording time with MPEG MovieEX!

Available in the following models: DCR-TRV740 and DCR-TRV840

MINI DV AND MICROMV™ HANDYCAM® CAMCORDERS

MegaPixel for Mini DV

Select **Mini DV** Handycam® camcorder models use either 1.07 or 1.5 MegaPixel CCD imagers (gross) to capture outstanding video and still picture images. The color rendition and sharpness of the video images are very life-like and appear very three-dimensional. This realism is also captured on still images, stored on Memory Stick® media. Using MegaPixel improves the recording capability to 530 lines of horizontal resolution and provides a robust 1360 x 1020 still image file size, which are great for making beautiful 4" x 6" color prints with Sony Dye-Sublimation color printers.

Network Capability with Bluetooth™ Adapter

Experience a new level of connectivity and capabilities with your Network Handycam camcorder. Select MICROMV and Mini DV models work with the BTA-NW1* Bluetooth adapter and provide these Network enabled Handycam® camcorders the ability to email MPEG Movies and still images over the Internet without using a PC! Store images on ImageStation™ and send an invitation to view them from your Network Handycam® camcorder. You can even browse the web through the same wireless Internet connection. Now, that's really hot!!

MICROMV™ Handycam Camcorders

Sony's pocketsize MICROMV™ Handycam® camcorders put digital video in the palm of your hand. The new MICROMV Handycam camcorders offer digital video quality, unprecedented scene access and titling capability.

Do you have everything you need in your pockets – cell phone, handheld camcorder? Camcorder! Sony's new MICROMV Handycam camcorders are perfectly sized to join the ranks of the pocketsize, go-anywhere conveniences that consumers now demand.

The DCR-IP5 and the DCR-IP7BT Handycam camcorders are the world's smallest and lightest full-function camcorders. The two diminutive models offer CD-quality sound, 500 lines of horizontal resolution and a DVD-like thumbnail pictures accessing feature that allows users to select and retrieve information on the tape with the touch of a button.

The MICROMV cassettes are 70 percent smaller than Mini DV tapes and allow for the camcorder's tiny size. Sony's MICROMV Handycam® Camcorders weigh in at just 12 ounces, and measure a mere 1 7/8 inches x 4 inches x 3 1/8 inches. Both of the new miniature models easily fit in the palm of your hand, a purse, even a shirt pocket.

**BTA-NW1 is a supplied accessory with the DCR-PC120 and DCR-IP7BT, and is an optional accessory on other Bluetooth™ enabled Handycam® Camcorders.*

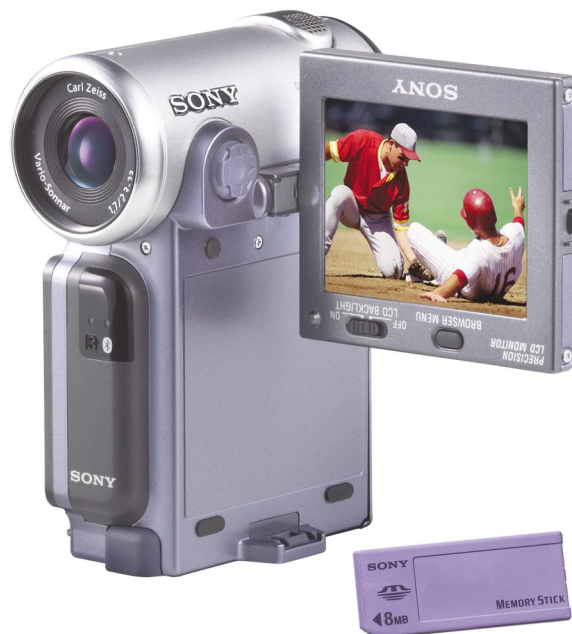
Carl Zeiss® Lens Assembly and T* Coating

Carl Zeiss is a world-renowned optical manufacturer that specializes in state of the art optical assemblies. Scientific and medical facilities rely on Carl Zeiss microscopes for accurate evaluations. World-class photographers have relied on Carl Zeiss lenses on their cameras for award-winning results.

Realizing the best quality video and still images start with the most accurate light gathering capabilities and focusing, Sony has chosen the Carl Zeiss lens system to complement selected CCD imagers. This pairing delivers improved color accuracy, and more contrast, revealing subtle details that take full advantage of the bandwidth of digital formats.

T* Coating

Select **Mini DV** models feature Carl Zeiss' most advanced multi-coating process – T*. Carl Zeiss' exclusive T* coating is applied to the lens elements to maintain the highest quality optical integrity, eliminating flare, glare and ghosting – providing outstanding video and still image performance.



2002 MEMORY STICK® DIGITAL MEDIA STORY

Memory Stick® media was introduced in 1998 and in just 4 short years has grown from a great concept to more than 30 product categories having broad market penetration, with millions of compatible products already available in the market. Worldwide, a breadth of Memory Stick products from dozens of manufacturers have been announced or developed in multiple categories, such as consumer electronics, information technology, automotive, and recordable media. These include Alpine and Pioneer car navigation systems, Acer handheld devices, HP and Epson printers, Lexar and SanDisk media, NTT DoCoMo wireless phones, and much, much more.

In 2003, over 100 million compatible products are expected in the market, meaning millions of users will be linking, sharing, and connecting to a network of digital devices with Memory Stick media. With unusual speed and broad acceptance, Memory Stick media has already captured a significant share of the U.S. flash memory market. As of this printing, there are more than 237 companies supporting the Memory Stick media platform, and the list continues to grow. Memory Stick media has the flexibility, and installed base of enabled products, providing the ability to become the next industry standard.

The Tech Specs

Memory Stick® media is small, durable, and perfect for storing and transferring any data between compatible digital devices. You can quickly and easily share digital still images, MPEG movies, PowerPoint presentations, Word documents, and Excel spreadsheets from device to device. Capture a MPEG movie from your recorded video captured with a Sony® Digital Handycam® Camcorder, remove the Memory Stick, insert it into your VAIO®, notebook computer, and share it with family and friends around the world through the Internet and ImageStation™ online service.

There is an erasure prevention switch on every Memory Stick media to protect your valuable files from being accidentally deleted. Memory Stick media uses a 10-pin serial type interface for speed and reliability, and the pins are protected by a unique, slot design that prevents damage. In the Spring of 2001, the 128MB Memory Stick media was introduced, providing storage and transfer options of 8MB, 16MB, 32MB, 64MB, and 128MB. Development of 256MB, 512MB and 1GB capacity is well underway, with plans for introduction over the next few years. Also important to recognize is that Memory Stick media is available with MagicGate™ - copyright protection capabilities for secure music content download, transfer and playback.

Amazing Memory Stick Expansion Modules

What could be more amazing than the potential for new applications with Memory Stick® media. Very little, when you consider the exciting things you can do with the new Memory Stick media expansion modules! Memory Stick media expansion modules are exciting new peripherals that plug into a Memory Stick media slot, adding new and greater capabilities to Sony's CLIE™ handhelds. In the future, these modules may provide some of the unique capabilities of Bluetooth™ wireless technology, and GPS navigation. For example, the currently available Digital Still Camera expansion module features a high quality camera that can turn your CLIE™ into a virtual imaging studio, allowing you to capture images on to Memory Stick media and use those images in a variety of fun and creative ways. Look for additional versatile Memory Stick media expansion modules soon.

The Ever-Expanding Memory Stick Universe

As the Memory Stick® media platform continues to grow globally, the ever-expanding universe of enabled products, offered by numerous manufacturers, will turn the dream of seamless integration, into reality.

Currently in the US, Sony has many different product categories that use and support Memory Stick media, including CyberShot® and FD Mavica® digital still cameras, Digital Handycam® camcorders, VAIO PCs, CLIE™ handheld devices, AIBO™ entertainment robots, digital photo printers, car and portable digital music players, projectors, videoconferencing systems, professional video cameras and much more to come.

And for those devices that don't have a direct Memory Stick media port, there are a variety of adapters available, such as the floppy disk adapter, the PC card adapter, Memory Stick media optical mouse, and USB adapter, available from Sony and from other manufacturers. Most VAIO®, notebook computers have a direct Memory Stick media port, and this year Sony has expanded its line of desktop PCs with Memory Stick media ports. Other computer manufacturers, such as Acer and NEC, have announced notebook computers with Memory Stick ports in markets abroad.

Memory Stick media is the perfect platform for integrating hardware, software, applications, and audio/video content that will facilitate the creation of your personal and portable digital dream world.



SONY'S EXCLUSIVE WORRY-FREE RECORDING™ SYSTEM

Life is wonderfully unpredictable. Your camcorder, however, shouldn't be. That's exactly the thinking behind Sony's exclusive Worry-Free Recording System, a sophisticated, technologically advanced system of convenient and innovative features and benefits that make it easy to capture life's most precious and priceless moments—every time. With all that, Sony Handycam® camcorders are definitely the ones to take along when you want to leave your worries behind.



ALPHABETIZED CAMCORDER TECHNOLOGY AND FABs

12-Bit/16-Bit PCM Stereo Audio

D8 DV VW

- F** 12-Bit/16-Bit PCM Stereo Audio
- A** Digital8 and Mini DV offer the choice to record in 12-bit or 16-bit Digital PCM Stereo Audio.
- B** 16-bit mode offers one pair of stereo tracks and achieves up to the same quality as CD or DAT, while 12-bit mode creates two sets of stereo tracks, recording only on one set, so you can insert music or narration on the second set using a Sony DV VCR, camcorder or computer with editing software.

While Digital8 camcorders do not offer Audio Dubbing capabilities (recording two independent stereo audio tracks onto one tape), the capability to record in a 12-bit PCM Digital Stereo Audio mode allows the Digital8 recording to be used in other digital applications that have Audio Dubbing capability such as DV camcorders and VCRs, as well as non-linear computer editing applications.

16:9 Mode

Hi8 D8 DV MV VW

- F** 16:9 Mode
- A** Ability to record and playback in a widescreen aspect ratio, or with letterbox effect.
- B** Use with widescreen displays, or the added creative value of recreating the "letterbox" effect.

The 16:9 Mode will let you record in a widescreen aspect ratio. This will become even more important as consumer TVs adopt the widescreen format. The Cinema Mode will let you add the black bars at the top and bottom of the screen to recreate a letterbox effect. This can add greatly to the creative value of your video, particularly when used in conjunction with other effects such as the Black & White Mode. For example, when trying to create the feel of an old Western or Silent Film, the Cinema and B & W modes used together are very effective.

14-Bit DXP (Digital Extended Processor)

DV

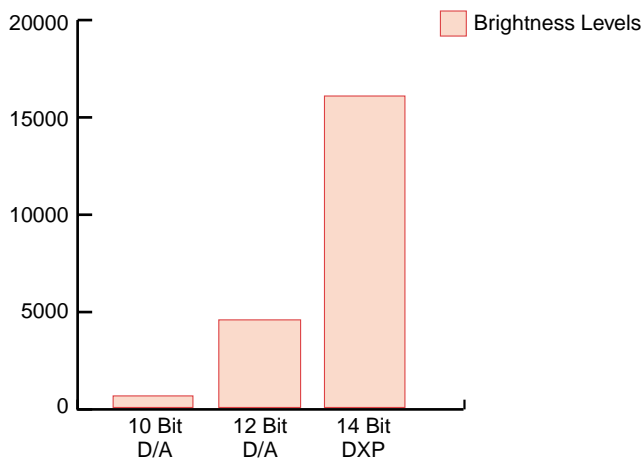
F 14-Bit DXP (Digital Extended Processor)

A Dramatic increase in relative brightness levels reproduced.

B Provides more life-like, realistic reproductions of images by accurately rendering thousands more fine changes in subject brightness.

The 14-bit DXP quantifies the subject's brightness into 16,384 possible values and allows reproduction that appears more life-like. The 14-bit DXP image is rendered in more varied levels of brightness and appears to be more three-dimensional and have more depth than those processed with 10 or 12-bit D/A processors.

- A standard 10 bit D/A processor allows for only 1024 different values of light quantification.
- A more realistic image is made possible employing 12-bit D/A providing a four-fold improvement over a 10-bit D/A; yielding 4,096 possible individual light values.
- The advanced 14-bit DXP further increases the levels of brightness resolution to 16 times that of a conventional 10-bit D/A, providing more dynamic and accurate images.



3 CCD Chip with Dichroic Prism

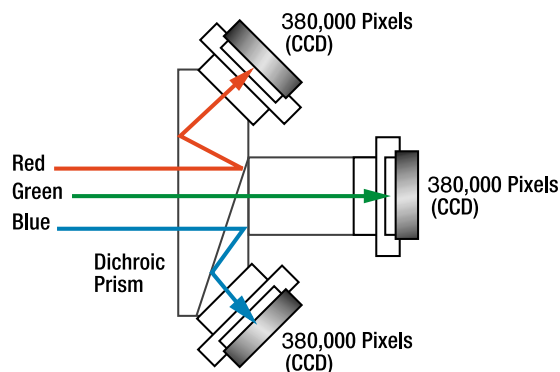
DV

F 3 CCD Chips with Dichroic Prism

A 3 CCD Chips, instead of 1, with a Dichroic Prism, for better color saturation, fidelity, and signal-to-noise ratio.

B Professional quality video with no color "smear" or "bleed."

A Dichroic Prism is a "lens" that separates Red, Green and Blue color components through diffraction and reflection. Each color is sent to a dedicated Precision CCD Chip, for processing. The result is CCD imaging utilizing more than a million combined pixels, providing excellent color fidelity and improved signal-to-noise ratio, with no color smear or bleeding.



6-Digital Effects

Hi8 D8 DV MV

F 6-Digital Effects

A Enhanced creativity

B Allows you to add creative "digital effects" to your videos.

Up to six different Digital Effects add creativity to your videos with Still, Flash Motion, Slow Shutter, Luminance Key, Trail and Old Movie.

8 Picture Effects

Hi8 D8 DV MV

F 8 Picture Effects

A Enhanced creativity

B Allows you to add creative picture effects to your videos.

Up to 8 picture effects add creativity to your videos. The effects are: Slim, Stretch, Mosaic, Solarization, Black and White, Sepia, Negative Art and Pastel. Some effects are available in the VTR and Camera modes on specific models.

AccuPower™ Battery Meter

Hi8 D8 DV MV VW

F AccuPower™ Battery Meter

A Displays in minutes how much time remains on the battery.

B Always know how much time is left for recording or playback.

The exclusive Sony AccuPower™ Meter system is the only battery indicator that displays amount of time remaining in minutes for camcorder operation. No other battery technology offers this Worry-Free capability.

Advanced Color Viewfinder**DV****F** **Advanced Color Viewfinder****A** Uses more pixels for superb, highly detailed color images.**B** User sees a sharp, accurate, full-color image of the scene they're shooting or playing back.

Sony's Advanced Color Viewfinder employs 113K pixels for highly detailed color images. A magnification rate of 1.5X is also applied to provide a larger viewing area. Optical Filters are also used to eliminate any pixelization of the image.

Advanced HAD™ (Hole Accumulation Diode) CCD**D8 DV MV****F** **Advanced HAD (Hole Accumulation Diode) CCD****A** Superb quality CCD imager that reduces noise in the video signal to improve signal-to-noise ratio by up to 6 dB.**B** 2x better signal-to-noise ratio over a typical CCD imager. Exceptional performance when shooting black objects, or while shooting in dark situations.

HAD CCD imagers were previously only available on professional video cameras from Sony. Now they're available on select Sony Digital8 and Mini DV Handycam camcorders so consumers can now take advantage of professional video imaging technology and performance.

Analog-to-Digital Conversion with Pass-Through**D8 DV VW****F** **Analog-to-Digital Conversion with Pass-Through****A** The analog inputs on select Digital8, Mini DV and Video Walkman models feature a built-in A/D converter that will convert your analog video/audio to a digital signal that can be passed-through the i.LINK interface to a compatible computer.**B** Record any analog source, such as 8mm, Hi8, VHS, or VHS-C to Digital8 for archiving or dubbing. Or, using the i.LINK (IEEE 1394) interface to a PC, you can eliminate having to first record to digital, with one-step, real-time conversion of analog sources to digital for PC based, non-linear editing applications.

Select Digital8, Mini DV Handycam camcorders and Video Walkman provide S-video and composite analog inputs so you can record from analog video sources digitally onto the digital camcorders. With Analog-to-Digital Conversion Pass-Through

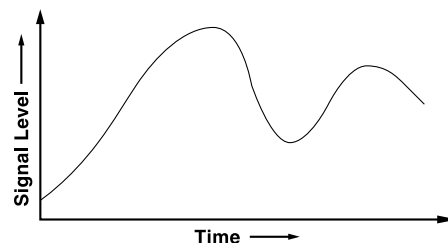
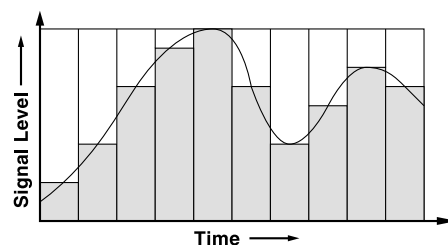
you can make any analog source available as a Digital Video output via DV i.LINK interface in one easy step. With most other digital camcorders you must first record your analog source onto digital tape and then play the tape back via a digital output (IEEE 1394) to the computer. But with Sony Digital Handycam camcorders, Analog-to-Digital conversion is Worry-Free.

Analog-to-Digital Converters**D8 DV VW****F** **Analog-to-Digital Converters****A** Ability to convert analog video to digital.**B** Analog video, converted to digital, will last longer and copy or edit with no loss of video quality.

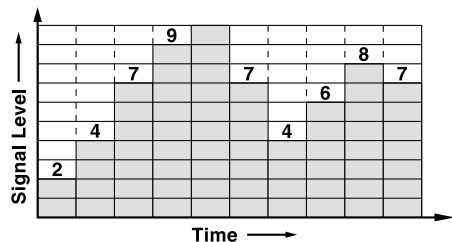
Converting analog video to digital has many positives such as better archiving and editing possibilities.

The A/D Conversion consists of a three-step process. The three steps are as follows (see graphic below):

- 1. Sampling** – This is the first of the three steps. The analog signal coming in is converted to a sampling frequency by dividing it vertically into intervals.
- 2. Quantization** – The signal is then further reduced to bits, by dividing it horizontally.
- 3. Binary Notation** – Each signal that has now been reduced is assigned a binary number, a 1 or a 0.

Sampling—Original Signal (Analog Signal)**Sampling**

Quantization



Binary Notation

Signal Level		Binary Notated Signal
2	→	00000010
4	→	00000100
7	→	00000111
9	→	00001001
10	→	00001010
7	→	00000111
4	→	00000100
6	→	00000110
8	→	00001000
7	→	00000111

Audio Dubbing

DV VW
F

Audio Dubbing

A

Ability to add a 12-bit PCM Stereo Track to existing 12-bit PCM Stereo Track.

B

By utilizing the 12-bit PCM mode, all Mini DV Handycam camcorders and all DV Decks offer the capability to add, in post production, an additional high quality, stereo, 12-bit PCM soundtrack.

Audio Dubbing found on all Mini DV Handycam camcorders and decks, allows you to add audio to the "original" 12-bit PCM stereo soundtracks. That's because the Mini DV format provides 2 sets of high quality stereo tracks in the 12-bit mode, (only one set of stereo tracks are available when using the 16-bit mode). All Mini DV Handycam camcorders and decks take advantage of this by letting you add one additional stereo soundtrack, while retaining the original stereo soundtrack. This is great for adding a stereo "background" track to your original narration, ambient audio, etc.

Auto Date

D8 DV VW
F

Auto Date

A

Date is automatically superimposed on the tape.

B

Each day you shoot video, the date will be superimposed over the first 10 seconds of video, so when you view your memories you'll always know the date it was shot.

A/V Inputs

D8 DV MV VW *

F

A/V Inputs

A

A/V inputs record from your VCR or other video equipment to make a copy of your personal video memories.

B

Convert any analog NTSC video source to digital video.

* excludes DCR-TRV140

Backward Compatibility

D8 DV MV VW
F

Backward Compatibility

A

Playback existing 8mm and Hi8 tapes in Digital8 Handycam camcorders and Digital8 Video Walkman® VCRs.

B

Playback your video memories that have been recorded on 8mm or Hi8 on your new Sony Digital8 Handycam camcorder.

The dual-speed tape drive and head drum assembly allow Digital8 camcorders and Digital8 Video Walkman® VCRs to playback all types of 8mm recordings. This way, consumers can begin to enjoy the numerous benefits of digital recording quality, while continuing to enjoy playback of their extensive 8mm and Hi8 analog libraries. (Excludes the DCR-TRV140)

Beep Function

Hi8 D8 DV MV VW
F

Beep Function

A

Alerts the user to various modes and functions.

B

Provides an audible beep to confirm camcorder's functions such as: record, standby, end of tape.

Built-In Pop Up Flash with Red-Eye Reduction

DV

F Built-In Pop Up Flash with Red-Eye Reduction

A The Built-In Pop Up Flash automatically engages when shooting still images in low light situations. The Red-Eye Reduction uses a series of pre-flashes to reduce pupil dilation just prior to capturing an image, to virtually eliminate the “red-eye” effect when using flash photography.

B No need for an extra light for still images, it's built-in. Take pictures with confidence, the red-eye reduction system gives you great results.

This new feature, found on select Handycam camcorders, will greatly improve results when using a flash to capture images. When using a normal flash, blood vessels at the back of the subject's eye will reflect the flash, causing the familiar “red eye” effect. By using a series of pre-flashes, these Digital Handycam® Camcorders constrict the subject's pupil before that image is captured, virtually eliminating any red-eye effect.

Bluetooth™ Technology

DV MV

F Bluetooth™ Technology

A Wireless technology and transmission protocol.

B Industry standard that allows a variety of electronics devices to interact and communicate with each other regardless of manufacturer wirelessly (up to 30 feet).

Connect to the internet without connecting to the PC. Plug in the supplied Bluetooth adapter to an analog phone line and you can send and receive email text messages, digital still images and MPEG movies, even surf the Web all from the Handycam camcorder up to 30 feet away. Use a Bluetooth compatible cell phone as your modem to stay connected wirelessly while mobile.

Bluetooth is a new standard for wireless connectivity, designed to replace cables between portable consumer devices such as cellular phones, laptop computers, PDA's and many other AVIT products. Bluetooth enabled Sony camcorders will be able to send and receive email with still images or MPEG Movies attached, and browse the Internet by wirelessly connecting your camcorder to a compatible mobile phone or wired connection from up to 30 feet away.

Carl Zeiss® Precision Lens

DV MV

F Carl Zeiss Precision Lens

A Professional quality optics with precision ground glass and better multi-coatings to allow more light to reach the CCD with less flaring and glare.

B Better overall picture quality, enhanced definition, and increased contrast.

Sony is proud to include Carl Zeiss lens assemblies on select DV and MICROMV Handycam® camcorders. Carl Zeiss is recognized as the world's authority in precision lens manufacturing. Sony brings this technology normally reserved for professional products such as microscopes into the consumer video market.

Carl Zeiss Precision Lens with T*

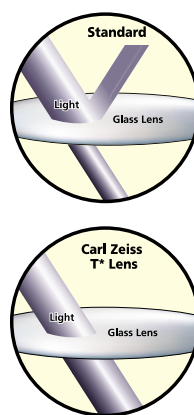
DV

F Carl Zeiss Precision Lens with T*

A Professional quality optics with precision ground glass and better multi-coatings to allow more light to reach the CCD with less flaring and glare.

B Ultra thin layers of special transparent coating are applied to the lens with great precision producing better overall picture quality.

T* is the most advanced optical multi-layer coating by Carl Zeiss. T* greatly reduces unwanted reflections in the camera lens. The result is vivid image brilliance, true-to-life colors, and increased contrast with perfect rendition of subtle tones.



Cassette Info Screen**MV****F** Cassette Info Screen**A** Allows the user to title the cassette contents.**B** Always know what is on the tape as well as the age of the recorded data.

The Cassette Info Screen provides a variety of useful data about the MICROMV tape itself that users have never had access to before. C.I.S. tells the user how much tape is available for recording, it will also provide data on the cassettes age and through index titling provide a record of what is recorded on it.

Cassette Tape - DV**DV****F** Cassette Tape - Digital Video**A** Dual Layer Metal Evaporated Particle Tape.**B** A more durable tape formulation with higher signal output and better overall quality.

Metal evaporated (ME) videocassettes provide higher output, and lower noise levels, thanks to the thin, dual layers of metal evaporated particles. Its durability and reliability is significantly enhanced due to the hard carbon layer overcoat and surface lubricants. All of these combine to provide enhanced performance and longevity.

Sony offers two types of Mini DV cassettes, one type with a 4K Integrated Circuit Memory Chip, and one without. The added benefit that the 4K Memory Chip provides is the ability to read and write data that can be used to access index points, "Photo ID" points, and other important information, such as Index Titler. The "standard" DV cassettes will also offer a memory chip for index and photo ID points.

**Color Bar Generator****DV****F** Color Bar Generator**A** Generate NTSC color bars for proper color and white balance.**B** Adjust your display's color temperature to match the accurate color bars displayed from the DCR-VX2000 for the best possible color reproduction of your videos.**Control L (LANC)****D8 DV VW****F** Control L (Local Application Bus Network Control)**A** Provides two-way communication between the camcorder and other video devices.**B** Camcorders, VCRs, Editors, and other devices can be "linked" together and share transport control, time code information and power information.

This feature, found on most Sony Handycam camcorders, lets you take full advantage of the Synchro Edit feature found on select VHS, Hi8, Digital8 and DV decks. Control L communicates all of the transport protocol, such as: Stop, Play, Record, Pause, FF and Rewind, bi-directionally between cameras and/or decks and editing equipment. This makes editing your videos quicker and easier, with professional looking results.

Data Code**D8 DV MV VW****F** Data Code**A** Stores the time and date information on the videotape**B** Lets you access time and date information at any time for future reference**Data Compression Technologies****D8 DV****F** Data Compression Technologies**A** Vast amount of data can fit in smaller area.**B** Ability to record the large amount of data required in digital formats for extremely high picture quality, onto a small cassette.

Digital8 and Mini DV uses Discrete Cosine Transform (DCT). This takes large blocks of data represented by 1s and 0s, looks at any redundancy of the pixels, and reduces the data as required to provide a 5 to 1 compression ratio.

Megabits Per Second (Mbps) – Obtained by pixels per line x lines per video frame x bits of data per pixel x frames per second. Video looks at frames per second (fps), there are 30 frames per second or 29.97fps in the NTSC broadcast format to be exact. Digital looks at megabits per second or Mbps; since it looks at 0s and 1s.

Motion Compensation – Looks at similarities between video frames. Changes only the difference between frames to reduce the amount of data. Reduces the uncompressed data from 127 Mbps to 25 Mbps.

Intraframe – Compresses and stores each video frame in the picture to allow for crystal clear pause and precise editing capability of each individual frame.

Demonstration Mode**Hi8 D8 DV MV****F** Demo Mode**A** “Self demo” mode is built into the camcorder.**B** The camcorder can act as its own salesperson by cycling through all of the various features and functions of the camcorder like: SteadyShot® image stabilization, Preset Titles, Program AE modes, special effects and other features.

To activate this mode, simply select Demo Mode in the menu system and choose “on.” If there is a cassette in the camera, remove it and then power up the camera. The camera will automatically enter the “Demo Mode.”

Digital Audio (PCM)**D8 DV VW****F** Digital Audio (PCM)**A** Audio information that is recorded as a digital signal (PCM).**B** Extremely high quality sound, at or near the DAT or CD level.

All audio information in the digital format is recorded as a digital signal (Pulse Code Modulation-PCM). Sampling and quantization occur in all audio signals. The waveform is “sampled”—samples use quantization to assign discrete numbers for the “sample.” PCM is a common system for taking the numbers and converting them to “1s” and “0s.” PCM overcomes many problems associated with bandwidth limitations.

Sony DV decks and select Digital8 and Mini DV Handycam camcorders have the option of recording in either the 12-bit or 16-bit PCM modes. In the 16-bit PCM mode, the sound quality is the same as DAT, with a sampling frequency of 48kHz, and dynamic range of 96 db.

In the 12-bit PCM recording mode, the dynamic range is 96 db and the sampling frequency is 32kHz. This means that the highest frequency is 16kHz—the highest frequency a person “hears” is around 16kHz.

In the 16-bit PCM mode, the DV format offers one set of stereo audio tracks. However, in the 12-bit mode, you can add a second pair of stereo tracks, allowing you to add narration or a stereo background track.

Digital Fader**Hi8 D8 DV MV****F** Digital Fader**A** Up to 7 different fader options depending on the specific model.**B** Lets you add a professional-looking “fade” to your videos.

The Fader feature lets you add professional fades to your videos with modes like Black, Mosaic, Bounce, Monotone, Stripe Overlap, Wipe and Random Modes.

Digital Noise Reduction (DNR)**Hi8****F** Digital Noise Reduction (DNR)**A** Reduces Chrominance Noise by up to 20% during LP recording.**B** Provides cleaner, more vivid images in the LP record mode, which is when noise reduction is needed most.

When recording in Hi8, chrominance (color) noise is reduced significantly by applying DNR. This becomes very apparent when shooting in the LP mode. If you’ve ever seen LP recordings on other formats without DNR you know that the difference from SP to LP can be dramatic. The picture becomes very “grainy” and “noisy.” With DNR, the difference becomes very subtle which means that you can use the LP record mode for many situations that you wouldn’t with other formats.

Digital Program Editing**D8 DV VW****F** Digital Program Editing**A** Controls dubbing of a video sequence from your Digital8 or Mini DV camcorder, or Video Walkman® VCR while recording onto another digital camcorder or analog VCR.**B** You can easily select and arrange up to 20 of the best scenes and make copies without having to shuttle back and forth on the tape when you make a copy.

Allows you to select a sequence of 20 scenes in any order and then the Sony Handycam camcorder controls dubbing via i.LINK interface to another i.LINK camcorder, or via Infra-red remote to an analog VCR. Controls both Sony and up to 59 other brands of camcorders and VCRs.

Digital Still Memory Mode with Memory Stick Media

D8 DV MV VW

- F** Digital Still Memory Mode with Memory Stick Media
- A** Record high quality digital still images directly to Memory Stick media.
- B** Select Handycam camcorders and Video Walkman decks have the added value of Dual Functionality, as a high quality digital video and a digital still camera.



Capture high quality digital still images (640 x 480, 1152 x 864 or 1360 x 1020) and store them on Memory Stick digital media for easy transfer into a variety of computer and audio/video products—no need for capture boards or conversions. Digital still images can be captured while in Memory Mode, or images from the videotape can be captured onto Memory Stick media. Images from Memory Stick media can also be copied to videotape within the camera. An 8MB Memory Stick, USB connection cable for PC, and PIXELA Image Mixer software are supplied. This feature provides the Dual Function of having one camera for video and still images, and provides the user with a whole new world of imaging possibilities.

Digital8 Recording System

D8 VW

- F** Digital8 Recording System
- A** Records digital video and audio on 8mm or Hi8 tapes.
- B** Digital picture and sound quality recorded on inexpensive, easy to find 8mm cassettes.



Digital8 camcorders deliver high quality digital video and audio. The new Digital8 system achieves stunning picture quality, with up to 520 lines of horizontal resolution, and records high quality 12-bit or 16-bit PCM digital stereo audio. Digital8 camcorder's recording pattern allows digital recording on 8mm or Hi8 tapes—the most popular camcorder format in the US. This compatibility enables Digital8 Handycam camcorder owners to enjoy continued playback of their analog 8mm or Hi8 tapes. Digital8 camcorders are the evolution of the 8mm format. It is the only digital camcorder format that lets you fast forward to digital quality without leaving your analog past behind.

	Digital8	DV	MICROMV	Hi8	VHS-C
Max. Horizontal Resolution	520	530	500	400	240
Audio Format	PCM	PCM	M1AL2	AFM	Linear
Playback	D/A	D	M	A	A

- D/A – Digital/Analog
- D – Digital
- A – Analog
- M – MPEG2
- M1AL2 – MPEG1 Audio Layer2

Double Scan System

MV

- F** Double Scan System
- A** A system where a single five micron track of data is read twice by the same head for increased accuracy.
- B** Allows more coverage of a larger area for more accurate reading, enabling the development of narrower track allowing the MICROMV cassette to be 1/3 of the size of a Mini DV cassette.

Crucial to any videotape system is the proper alignment of playback heads to recorded tracks. As the tracks get smaller, the alignment becomes more difficult to maintain. But Sony found a better way. The Double Scan system reads each track twice, and sums the two readings for maximum output. This system replaces a potentially finicky mechanical solution with a highly reliable electronic solution.

DV Drum Diameter

DV

- F** DV Drum Diameter
- A** 21.7 mm Head Drum Diameter
- B** A Head Drum assembly that is precise in size to 1 micron (1/1000mm).

To record and playback the high quality DV signal the drum mechanism must be precise in size to the micron. 10 tracks are recorded on a very narrow pitch about the width of one human hair. The track pitch is 1/2 to 1/6 as narrow as an analog VCR track pitch. The reason the pitch can be so narrow is that DV only is required to read “1s” and “0s,” not an analog signal.

In order to record 10 tracks for one frame, the DV head drum must rotate at 9,000 rpm, which is 5 times faster than analog VCRs.

Easy Dubbing

Hi8

- F** Easy Dubbing
- A** Easy dubbing of video from a Hi8 Handycam camcorder to an analog VCR using analog cables and infrared operations.
- B** Makes dubbing your videos to a VCR simple.

Allows you to dub audio and video from your Handycam camcorder to the VCR through A/V cables while controlling the VCR with an infrared transmission. Handycam camcorders will control Sony and up to 59 different VCR manufacturers for easy dubbing.

Edit Search™ Feature**D8 DV**

- F** Edit Search Feature
-
- A** Easy access to previously shot scenes.
-
- B** Allows you to review the last several seconds of video without leaving the “camera” mode.

This is a very handy feature that lets you check the last scene you shot without switching to the VTR mode, rewinding the tape, pressing the “play” button, and then viewing the scene. With the Edit Search feature, while still in the “camera” mode, simply press the button to quickly rewind and view the last 3 seconds you just shot. If you need to review or re-shoot more than 3 seconds, press and hold the button down until you reach the scene you want.

Headphone and Mic Jacks**D8 DV VW**

- F** Headphone and Mic Jacks
-
- A** Inputs for headphones and microphones are provided.
-
- B** Lets you use external microphones and/or monitor the sound with headphones.

Most Handycam camcorder models offer a headphone jack so you can monitor the audio while recording, or listen upon playback. The Mic Input jack allows the connection of an external microphone (i.e. wireless, multi-directional, or zoom), for better audio recording.

High Performance ME Tape for MICROMV**MV**

- F** High Performance ME Tape for MICROMV
-
- A** Thin layer, low noise metal evaporated tape with a newly designed carbon protective film and lubricant system.
-
- B** Metal evaporated tape provides superior density and image quality, while the carbon layer and lubrication provides increased durability and reduced friction resulting in a longer life than typical metal evaporated tapes.

They said it couldn't be done. We disagreed. Using a thin-layer, low-noise evaporated tape combined with a new carbon protective film and lubricant that reduces friction and head abrasion, Sony's MICROMV High density digital recording tape provides stunning recording quality in a tape that is 70% smaller than a Mini DV cassette.

High Power, High Accuracy Magneto Resistive (MR) Head**MV**

- F** High Power, High Accuracy Magneto Resistive (MR) Head
-
- A** Releases a much higher output compared to other camcorder video heads and reads data more accurately.
-
- B** The MICROMV format uses a high-density recording format resulting in picture quality equivalent to Mini DV and Digital8

How do today's hard disk drives achieve higher and higher capacities? Through Magneto Resistive (MR) recording. MR playback heads can read microscopically small magnetic signals. That's why Sony developed a unique head drum assembly with MR playback heads for MICROMV camcorders.

i.LINK® (IEEE 1394)* MICROMV Interface**MV**

- F** i.LINK® (IEEE 1394) MICROMV Interface
-
- A** A quick, single cable, all digital connection to an i.LINK enabled PC for video editing from the MICROMV camcorder.
-
- B** Standard i.LINK cable (4 pins) used in standard DV but only compatible with MPEG2 (MICROMV) computer editing software. Similar to an RCA cable which can be used for both video and audio connections.

The i.LINK (IEEE 1394) Interface for MICROMV is a digital interface, featured on all MICROMV Digital Handycam camcorders, and makes it easy to connect your Digital Handycam camcorder to compatible computer products, taking connectivity to a new digital level with virtually no loss of quality when dubbing or editing. (For transferring Digital Still Images and MPEG Movies see USB Connection.)

i.LINK® (IEEE 1394)* Digital Video Interface**D8 DV VW**

- F** i.LINK (IEEE 1394) Digital Video Interface
-
- A** Digital Interface that allows 2-way, pure digital communication between two digital camcorders, and/or other DV related devices, such as capture boards, PCs, etc.
-
- B** Digital dubs and digital editing, without any deterioration of picture quality, because it bypasses any D/A and A/D conversion processes.



The i.LINK (IEEE 1394) DV Interface is an industry standard digital interface, featured on all Digital8, Mini DV Digital Handycam camcorders and Video Walkman® decks, and makes it easy to connect your Digital Handycam camcorder to a variety of video and computer products, taking connectivity to a new digital level with virtually no loss of quality when dubbing or editing. (For transferring Digital Still Images and MPEG Movies see USB Connection).

*i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an IEEE 1394 connector may not communicate with each other.

Icon Based Menu System

Hi8 D8 DV MV VW

F Icon Based Menu System

A On screen menus are grouped by icons.

B Easy to use menu system with functions grouped by icon.

Most of the camcorder features are easily accessed through the on-screen menu system. The common features are grouped under the icons in logical order, similar to a PC icon-based system.

Index Titling

DV

F Index Titling

A Custom titles (22 characters), 8 preset titles. 2 sizes, 7 colors, 9 positions are available when using cassette memory.

B Ability to create professional looking text for any video shot and store them on Sony DV cassette 4K memory chips, not on the tape itself.

Storing titles to the DV cassette memory allows for the addition of titles to the video in post production, after it has been shot. Storing titles to the DV cassette memory and not directly to the cassette allows for changes to the text at any future date. Providing multiple text sizes, colors and positions, Sony offers the user the ability to complement recorded video with text in a variety of creative and fun ways.

Tape Title – memorizes the name of each cassette in the cassette memory. You can use this as a video label for your tapes. Each time you insert that tape the “Tape Title” will show up on the monitor.

Index Titlers – unique recording system memorizes your titles onto cassette memory and not directly onto the video. Titles can be entered after recording. You can title each event with the option to change or erase without altering the video.

Title Search – makes it possible to search for a specific scene based on the title information as indexed.

InfoLithium®

Hi8 D8 DV MV VW

Rechargeable Batteries

F InfoLithium Rechargeable Batteries

A Improved Lithium-ion rechargeable battery that can be recharged anytime.

B A battery pack that can be recharged at any time, without any “memory effect” and it tells you how much power is remaining.



Lithium-ion batteries provide superior ease of use and recording time when compared to Ni-Cad batteries. And unlike Ni-Cad batteries, you can recharge them at anytime without developing any memory effect. All Sony InfoLithium batteries incorporate an IC Chip that communicates with the camcorder or Video Walkman VCR to provide the amount of time remaining on the battery. This feature is known as the AccuPower™ meter and the battery time remaining is displayed in the viewfinder or LCD.

Intelligent Accessory Shoe

D8 DV

F Intelligent Accessory Shoe

A Provides power and synchronized operation between accessory and camcorder.

B Camcorder automatically turns the accessory off and on, making the use of Intelligent Accessories very easy.

Models featuring the Intelligent Accessory Shoe make using accessories such as Video Lights or Zoom Microphones, very easy. All you have to do is mount the accessory on the shoe and it will automatically provide the following information to the camera: power, power on/off (controlled with standby/lock), Control L, and Shoe ID data, which distinguishes the type of accessory being used.

Interval and Frame Recording

D8 DV

F Interval and Frame Recording

A Add a creative animated effect to your home videos. Shots can be predefined for record times or record four frames at a time for a unique look.

B Allows you to designate time segments for recording progression shots.

Interval Recording allows you to make time-lapse recordings. (i.e.. recording flower budding) Intervals can be set at 30 seconds, 1 minute, 5 minutes, or 10 minutes. Recording time can be set at 0.2 seconds, 0.5 seconds, 1 second, or 2 seconds. Available on select DV and D8 models.

Frame Recording allows you to record 4 frames at a time to achieve a special animated effect. It records an object for 4 frames and then stops, allowing you to move the object and continue recording to obtain the desired look.

LP Record Mode for Digital8 D8

F LP Record Mode for Digital8

A Slower tape speed lets you record D8 video 50% longer on Hi8 tapes.

B You can record up to 90 minutes on a standard 120-minute Hi8 tape.

Now you can increase the length of record time on Hi8 tapes, which means it costs less per minute to videotape!

Available Record Time: Digital8 vs. Analog 8mm

Digital8 Handycam camcorders record digitally to 8mm or Hi8 cassettes but recording times differ when recording in Digital8 vs. 8mm or Hi8. To achieve the high level of picture quality that Digital8 provides, we must record more information to the same tape. This is achieved by spinning the video head at more than twice the speed of standard 8mm tape – 1800rpm to 4500rpm. In addition the tape travels at twice the speed across the video heads. While this process shortens your recording time from 120 minutes to 60 minutes (or 90 minutes in the LP mode) on a 120 minute 8mm or Hi8 cassette, horizontal resolution can be more than twice that of VHS or VHS-C.

Tips on LP recording: For optimum performance, use high quality Hi8 cassettes, and use the same camcorder for playback.

Manual Controls DV

F Manual Controls

A Ability to manually control all primary functions of the camcorder.

B Provides unlimited creative control of focusing, shutter speeds, aperture, etc.

Point and Shoot camcorders are great if you're on the go, but if you want or need more control for creating special effects or a certain "look"—there's no substitute for manual controls. The following manual features are available on select models:

Manual Focusing Ring

Lets you focus manually with smooth, precise action for a "hands on" creative feel.

Manual Shutter Speeds

Up to 16 speeds on select models: 1/60 - 1/10,000 and slow shutter speeds of 1/4, 1/6, 1/10 and 1/30.

Manual Exposure

Iris Control, up to 24 steps, offers creative control of image quality. Exposure mode cannot be accessed while in Program AE Modes.

Manual Audio Gain

Microphone level control allows the user to back off gain in very loud situations and increase gain to enhance low volume or subjects at a distance.

Mega Pixel CCD D8 DV

F Mega Pixel CCD

A The CCD imager contains up to 1.5 million pixels, producing up to 530 lines of horizontal resolution for video and up to 1360 x 1020 still image file size in the Digital Still Memory Mode for superior quality video and still images.

B Provides outstanding detail and clarity with exceptional video quality and breakthrough still image resolution and performance never before realized in a single CCD consumer camcorder.



Select Sony DV and Digital8 Handycam camcorders offer a choice of Mega Pixel design utilizing a 1070K Mega Pixel CCD imager producing outstanding video at **520 lines of horizontal resolution** and still images at 1152 x 864 file size.

Moreover, if you need more pixels, select Mini DV Handycam camcorders utilize a 1550K mega pixel camcorder that captures digital still images at 1360 x 1020 file size and **530 lines of horizontal video resolution** for unprecedented video performance from a single CCD consumer camcorder.

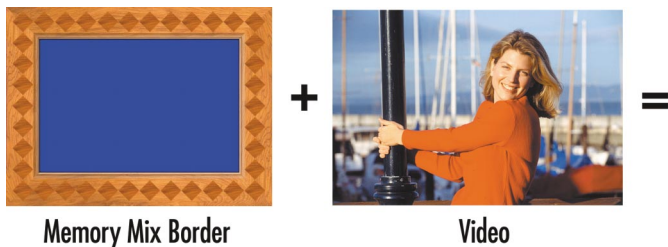
Memory Mix Effects D8 DV

F Memory Mix Effects

A Images stored on Memory Stick digital media are mixed with live images from the camcorder to create special effects.

B Your videos will be more interesting and exciting with Memory Mix effects.

While shooting in Camera mode, press the Memory Mix button. On-screen controls let you choose from four Memory Mix modes.



Memory Chroma Key: Substitutes live camera image for blue part of the still picture from Memory Stick digital media. The 8MB Memory Stick media that comes with the camcorder includes images such as picture frames surrounding a blue background that allow you to insert images you shoot with the camcorder into the blue background.

Memory Luminance Key: Substitutes live camera image for high luminance part of still picture, especially useful for adding custom titles.

Camera Chroma Key: Subject is shot in front of blue background. Still image from Memory Stick digital media is substituted for blue background. Sample backgrounds are included with the 8MB Memory Stick digital media that comes with the camcorder.

Memory Overlap: Fades from still image on Memory Stick digital media to live video.

Memory Stick® Media

D8 DV MV VW

F Memory Stick® Media

A Compact reusable memory available in various capacities.

B A compact durable and compatible way to store and transfer digital data such as digital still images.

Memory Stick media provides a smaller more durable flash style memory that is, per megabyte, a far better value than existing memory modules. In addition, Memory Stick digital media is the first flash style memory that has applications across the spectrum of Sony's consumer electronics. With support from over 237 companies spanning consumer electronics, IT, automotive industries, audio/video and other consumer products, look for this versatile memory to be used in a variety of consumer applications.



ACTUAL SIZE

MICROMV Cassette Memory

MV

F MICROMV Cassette Memory

A 64K standard cassette memory system that is 16X that of the optional memory system used with the Mini DV format

B Allows quick and easy access to any previously recorded scene on the tape by showing the first frame of all recorded scenes. Cassette Memory also stores Cassette ID, tape and scene titles and information about the cassette itself.

Cassette Memory on MICROMV utilizes a 64K memory chip vs. the optional 4K-memory chip on select Mini DV tapes. This increased memory allows for additional functionality that is not on the Mini DV format. This increased memory allows for features like Multi-Search with Direct Scene Access and Index Titling allowing increased functionality and flexibility, resulting in a more enjoyable video recording experience for you.

MICROMV Cassette

MV

F MICROMV Cassette

A 70% smaller than a Mini DV cassette with a newly designed tape cover.

B The smaller cassette allows the camcorder to be designed smaller and the new tape cover allows the cassette to be closer to the head. Thus, eliminating wasted space while allowing the camcorder to be smaller.



ACTUAL SIZE

MPEG2 Data Compression**MV****F** MPEG2 Data Compression

A Offers efficient compression rate while maintaining high image quality. MPEG2 can also offer variable compression rates, for various applications.

B By utilizing MPEG2 compression, the tape, camcorder and file sizes are reduced while maintaining quality similar to DV and D8. The different compression rates provide the ability to stream video on the Internet, allowing it to be adjusted to meet a system's available bandwidth and transmission rate.

MPEG2 encoded files are smaller than traditional Mini DV digital camcorders. The reduced file size and lower bit rate (12Mbps vs. 25Mbps of Mini DV) of an MPEG2 encoded video signal means that the tape can be smaller (70% smaller than Mini DV). This reduced tape size allows Sony to make a smaller and lighter camcorder. In fact, MICROMV Handycam camcorders are the smallest and lightest digital camcorders that Sony currently offers.

MPEG Movie AD**MV****F** MPEG Movie AD

A Record MPEG movie files at a resolution of 320 x 240 at full motion up to the capacity of space available on your Memory Stick media.

B High quality full motion video with audio that plays back clearly without the typical artifacts caused by the reduced frame rate of some MPEG recorded files. Movies are clear and clean and virtually free of skipping or sync audio video synchronization issues.

MPEG Movie AD is the newest addition to the Sony family of MPEG recording modes. MPEG Movie AD is currently featured only on Sony's MICROMV line of network Handycam IP camcorders. MPEG Movie AD allows the user to record a movie up to the space available on their Memory Stick media. When compared with previous MPEG recording systems that sacrificed quality through reduced frame rate and or recording time, the performance benefits of MPEG Movie AD are clear.

MPEG Movie EX Mode**D8 DV****F** MPEG Movie EX Mode

A Shoot and record up to 85 minutes of MPEG video (160 x 112) in a single clip on a 128 MB Memory Stick® media (8 frames per second).

B Record longer MPEG movies that are easy to email and share, no longer limited to 60 seconds of MPEG movies. Create longer MPEG files for sharing or even for web movies on the internet.

With Sony's MPEG Movie EX mode, you can record non-stop MPEG1 compressed videos with audio to the capacity of the Memory Stick® media. Just push the record button, and continue capturing your memories! MPEG movie clips are perfect for e-mailing or uploading to websites. Select from two resolutions: 320 x 240 or 160 x 112.

MPEG Movie Mode**D8****F** MPEG Movie Mode

A Record compressed video with sound on to your Memory Stick media.

B Allows you to capture up to 60 seconds of video/audio at 160 x 112 setting for fast and easy downloads. Or use Presentation Mode for up to 15 seconds of high quality video/audio at 320 x 240 setting. Then easily email MPEG movies to your friends and family.



Originally found on step-up Sony Digital Still Cameras, Sony presents another camcorder first—MPEG Movie Mode for select Handycam Camcorders. Capture up to 60 seconds of MPEG1 encoded video and store it directly to Memory Stick media. Or, convert up to 60 seconds of digital video to an MPEG Movie for emailing. Take the "Best Of" scene recorded on video tape, for example—the groom kissing the bride on the wedding day, convert it to an MPEG Movie and share it with family and friends via the internet.

Multi Picture Search**MV****F** Multi Picture Search

A Creates a thumbnail image from the first frame of each recorded scene.

B The thumbnail image provides the user a visual marker of the recorded content of each scene and allows random access to any of the scenes recorded onto the cassette.



Multi-Search with Direct Scene Access creates thumbnail images that represent each scene (the point between beginning and end record points) on a tape. The thumbnail image is stored on the standard 64K memory found in all MICROMV cassettes. Each scene is then directly accessible, like on a DVD, eliminating the need to scan back and forth on a tape looking for just the right clip. Now you can spend less time looking for that perfect scene and more time recording incredible home videos.

Network Function*

MV

F Network Function

A Allows images and MPEG Movie files to be transmitted to the Internet via Bluetooth™ technology from the camcorder's Memory Stick® media through a supplied modem or Bluetooth compatible cellular phone.

B Images and MPEG movies can be shared with family and friends via the Internet, without a PC.

Select network enabled Sony Handycam camcorders can communicate, via Bluetooth™ technology, with other compatible devices such as cell phones. Through a compatible ISP service, still images and MPEG Movies captured to the camcorder's Memory Stick can be transferred to a Bluetooth™ enabled receiver resulting in the ability to share your still images or MPEG movie files from virtually any location, without a computer.

*Network Function refers to:

1. Send and receive email with still and MPEG Movie attachments
2. Browse the web
3. Upload images to ImageStationSM

Neutral Density Filter (ND)

DV

F Neutral Density Filter

A On-board filter reduces light.

B Record clear images even under bright lighting conditions.

The "ND" icon flashes in the viewfinder (DCR-VX2000) when you need to use this helpful feature. This will allow you to record clearly under very brightly lit conditions.

NightShot® 0 Lux System

Hi8

F NightShot 0 Lux System

A Record video in total darkness (0 Lux) up to 10 feet away.

B Capture video even when you are shooting in total darkness.



The revolutionary NightShot infrared system allows you to record images up to 10 feet away using the IR transmitter built into the Handycam camcorder. The IR transmitter bathes the recording area with infrared light making it visible to the NightShot camera. With the optional HVL-IRC NightShot Lights, you can record images up to 100 feet away in total darkness.

All camcorder CCDs apply an infrared IR cut filter that cuts (eliminates) infrared light from being picked up. This is done because the IR light can cause improper white balance that affects picture quality. By removing the IR cut filter and using IR emitters to bathe the area with infrared light, the camera can now see in total darkness, 0 Lux.

With NightShot



Without NightShot



On Screen Display**Hi8 D8 DV MV VW****F** On Screen Display**A** Pertinent information is displayed on screen.**B** Camcorder status is transmitted to an external monitor for easy access to counter, mode and other important information.

The camera's mode, such as record or standby, time/date, and counter, is conveniently displayed on the external TV or monitor. The feature is usually accessed with the remote control's "display" button. Select models also offer it on the camcorder. Handycam Vision® Series models let you choose to display it on the LCD monitor and/or through the video outputs.

Optimum Recording Control**Hi8****F** Optimum Recording Control**A** Analyzes the tape and condition of the video heads to optimize performance.**B** Best possible video performance, no matter what type of tape you're using, or the current condition of the video heads.

Optimum Recording Control (ORC) when activated, will perform a short record and playback of the inserted video tape to analyze the tape, and to check the condition of the video heads. During this analysis, adjustments are made to the heads to optimize the video performance, using that particular tape.

Another benefit that ORC provides, besides better overall video quality, is increased life of the video heads.

Photo Mode**D8 DV MV VW****F** Digital Photo Mode**A** Ability to capture 1 still image with 7 seconds of audio onto the video tape.**B** Capture still images directly to the camcorder tape for fun or later use in publishing or uploading to your web site.

Digital Photo Mode brings the ability to capture images and store them to your camcorder's tape. Liven up your home movies with still images that also provide 7 seconds of narration. With the right optional equipment in your PC, you can transfer, print or even publish your images on the internet.

Photo Save**D8 DV****F** Photo Save**A** Quick access to still images stored on the videocassette, and easily transferred to Memory Stick® media.**B** Less time spent searching for still images stored on the videocassette allows you more time for editing and the enjoyment of personal memories.

Photo Save is a hassle free way to transfer still images from the videocassette to Memory Stick media. This allows quicker access to still images for emailing pictures to friends and family.

Playback Zoom**D8 DV VW****F** Playback Zoom**A** Zoom closer on still images and videos.**B** Lets you crop and adjust images to better control framing of your pictures.

During playback, pause mode or while viewing still images, press the "PB Zoom" button. You can use the camera's zoom to zoom in up to 2X closer on the DCR-TRV340 and up to 5X closer on select Digital8, Mini DV and Video Walkman models. Zoom position can be cropped left or right and up or down. For example, in a picture of two people, you can zoom in on one person and create an individual portrait. Newly cropped images can be stored onto Memory Stick media.



Original image, zoomed in and cropped

Save the image as a new VGA 640x480 image

Precision Color Viewfinder**DV**

- F** Precision Color Viewfinder
-
- A** Uses more pixels for superb, highly detailed color images.
-
- B** User sees a sharp, accurate, full-color image of the scene they're shooting or playing back with increased resolution.

The Precision Color Viewfinder employs 180K pixels to provide even more detail information, capable of reproducing up to 530 lines of horizontal resolution, one of the sharpest viewfinders available. A magnification rate of 1.5X is also applied to provide a larger viewing area.

Precision Digital Zoom**Hi8 D8 DV MV**

- F** Precision Digital Zoom
-
- A** Brings the subject and action up close with more detail.
-
- B** Sharper, clearer and longer telephoto shots.

Because Sony uses higher pixel count CCD chips, the image remains sharp and clear even in the telephoto mode. Another benefit of the Precision CCD chip is greater overall definition and clarity.

Precision Optical Zoom**Hi8 D8 DV MV**

- F** Precision Optical Zoom
-
- A** Provides the most accurate image magnification with optimal detail and clarity.
-
- B** Great looking images with no distortion.

Optical Zoom lets you zoom in on your subject or pull back for wide shots without any loss of resolution or clarity.

Print Image Matching (PIM)**D8 DV**

- F** Print Image Matching (PIM)
-
- A** Allows the color, brightness, sharpness and feel of an original image to be precisely reproduced in the photos when printed with a PIM printer.
-
- B** No need to adjust color with the PC. Get accurate color representation virtually everytime when printing your photos.

You no longer have to settle for undesirable color casts and lost shadow details. This will give you better representation of accurate color definition and detail. The memories you have are now represented in print quality.

Print Mark**D8 DV VW**

- F** Print Mark
-
- A** Pre-select still images in the Handycam camcorder for printing via an external printer that conforms with DPOF (Digital Print Order Format).
-
- B** Printing made easy. Print images with a DPOF printer for hassle free prints.

Allows you to pre-select still images in the Handycam camcorder for printing. This allows you to print pictures without having to monitor the printer. Simply insert media with print marked images. Press "DPOF" and "print" buttons and walk away.

Program Auto Exposure**Hi8 D8 DV MV**

- F** Program Auto Exposure
-
- A** Variety of Auto Exposure modes for various shooting conditions.
-
- B** Quick and easy setting for the proper exposure, shutter, and focus settings for a variety of environments.

Program Auto Exposure (Program AE) will automatically make all of the necessary settings to the shutter speed, aperture, and focusing for a variety of outdoor and indoor situations. This greatly simplifies the shooting process. Up to 7 Program AE Modes are available on 2002 Handycam camcorders.

The 7 Program AE Modes are:

1. Portrait Mode – Softens the background focus behind your primary subject. This emphasizes the subject and provides an overall "softer touch" to the image, similar to what a portrait studio would do with portrait still photography.



2. Sports Lesson Mode – Selects the fastest shutter speed for the lighting conditions to capture fast movements found in sports scenes. This shutter speed will vary from 1/250 up to 1/4000 of a second.



3. Spotlight Mode – Prevents the saturation of a subject caused by strong lighting that is typically found in stage productions, or similarly artificially lighted events.



4. Sunset/Moon Mode – Provides faithful reproduction of subjects in "dark" lighting conditions such as: sunsets, sunrise, night time/full moon, and fireworks.



5. Beach and Ski Mode – Compensates for bright reflections, which can cause "silhouettes" when shooting on snow covered mountains or at the beach.



6. Landscape Mode – Improve focusing and contrast when shooting landscapes through a window or through wire netting. This also eliminates “flaring” that can occur in the wide angle mode for shooting a landscape scene.



7. Low Lux – Automatically selects a slower shutter speed to reduce video noise in low light situations to improve picture quality.

Progressive Shutter System

D8 DV

F

Progressive Shutter System

A

Mechanical shutter system that provides progressive scan performance while utilizing the NTSC standard interlaced scanning system.

B

Still images will be sharp and clear with excellent definition, without the typical “stairstepping” or sharp edge artifacts that can be found in interlaced still images.

The Progressive Shutter System is great for capturing still images without the annoying “jagged edges” that normally show up in still pictures taken with a camcorder. Your still pictures are sharp and clear. *(Images below are simulated.)*



Interlaced (left) vs. Progressive Shutter System (right)

Quick Charge System

D8 DV

F

Quick Charge System

A

Battery charger provides up to 1 hour's charge in just 20 minutes with the optional NP-F750, NP-F960, NP-FM70 and NP-FM91 batteries.

B

Charge your camcorder battery faster for power in a hurry. No more waiting several hours for a 1 hour charge.

At last a battery charging system that does not take forever to charge. No more waiting around to get a charge. With just 20 minutes of charging you get an hour of record or play time. In addition, Sony's InfoLithium battery will not develop a memory regardless of when you use it in the charging process.

Simultaneous Video and Still Record Mode

D8 DV

F

Simultaneous Video and Still Record Mode

A

Gives the advantage to record a still image directly to the Memory Stick® media while recording video.

B

You never have to worry about missing a “still” shot while recording “live” video.

With Sony's Simultaneous Video and Still Record Mode, you can shoot video and record a still image at VGA (640 x 480) resolution onto the Memory Stick media. Giving you the advantage of “on-the-fly” video recording and still image capturing capability.

Stamina® Power Management System

Hi8 D8 DV VW

F

Stamina Power Management System

A

Record up to 15.5 hours with one optional battery (NP-FM91) on select models.

B

Reduced power consumption on all Handycam camcorders results in significantly longer battery life.



The optional InfoLithium® battery will let you record up to 15.5 hours on one charge. Handycam camcorder power consumption runs as low as 1.9W when using the viewfinder. This will provide a distinct advantage over competitive models. Even Handycam Vision® Series models have been designed to run on less power, thereby providing more battery time.

Maximum Record Time Using Optional Batteries

Model (NP-FM91)	Max Rec Time
CCD-TRV108	15.5 hrs
CCD-TRV308	15.5 hrs
CCD-TRV608	15.5 hrs
CCD-TRV140	10.5 hrs
DCR-TRV240	10.0 hrs
DCR-TRV340	10.0 hrs
DCR-TRV740	8.0 hrs
DCR-TRV840	8.0 hrs
DCR-TRV18	12.0 hrs
DCR-PC101	9.0 hrs
DCR-TRV25	8.5 hrs
DCR-TRV27	8.5 hrs
DCR-TRV50	8.5 hrs
DCR-PC120BT	7.5 hrs
DCR-TRV950	9.0 hrs
DCR-VX2000 (NP-FM960)	9.5 hrs

Skip Scan**D8 DV MV VW****F Skip Scan****A Ability to view the image while in Fast Forward or Rewind.****B Locates a specific scene quickly and easily.**

Skip Scan is a convenience feature that lets the user “drop in” and view the picture in the high speed fast-forward (FF), or rewind modes. This makes finding specific segments on the tape quick and easy.

SteadyShot® Picture Stabilization System**Hi8****F SteadyShot Picture Stabilization System****A Picture stabilization without image quality degradation****B Minimizes unwanted camera motion, without changing or degrading the quality of the image.**

SteadyShot picture stabilization has been improved over the last few years to offer the most effective, and in the case of Hyper-Precision SteadyShot stabilization, the most power efficient image stabilization system available on the market. SteadyShot image stabilization utilizes motion sensors located in the lens assembly area that are designed to sense camcorder motion, not subject motion. This is one of the discriminating differences that the Sony system offers, that most competitor's systems don't.

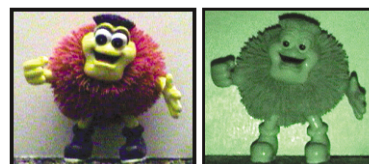
SteadyShot HyperPrecision CCD: The HyperPrecision SteadyShot system uses an oversized CCD chip (up to 470K). The extra pixels on the chip compensate for both horizontal and vertical motion of the camcorder, based on the motion sensors, which is different from digital or electronic image stabilizing systems. HyperPrecision SteadyShot system minimizes camcorder shake, without degrading or changing the picture quality, by turning off and on the appropriate pixels every 1/60 second to compensate for the motion of the camera.

Super NightShot and Color Slow Shutter Mode**D8 DV****F Super NightShot and Color Slow Shutter Mode****A The shutter speed is automatically slowed down allowing more infrared light to be brought into the camera, resulting in higher contrast, and image quality.****B Allows video to be recorded in color as they were originally intended to be viewed thus allowing a more accurate video quality.**

In the Super NightShot mode the shutter is automatically slowed down, allowing more light to enter into the camcorder lens, improving picture quality and detail. Use the Color Slow Shutter Mode when shooting in Low Light conditions, this allows the camera to slow down the shutter speed and record in color.

Super NightShot Infrared System with Slow Shutter Mode**Hi8****F Super NightShot Infrared System with Slow Shutter Mode****A The camera automatically selects a slower shutter speed of 1/4 or 1/15 second so more infrared light is brought into the camera, resulting in a higher contrast, higher quality image.****B Images recorded in Super NightShot mode are brighter, sharper, and with more detail.**

In the Super NightShot mode, the shutter automatically adjusts between 1/4 - 1/15 sec. slowing down the shutter speed, allowing more light into the camcorder's lens, thus enhancing and improving picture detail and quality. Now shooting in low light conditions or total darkness is even more Worry-Free with the Super NightShot mode.

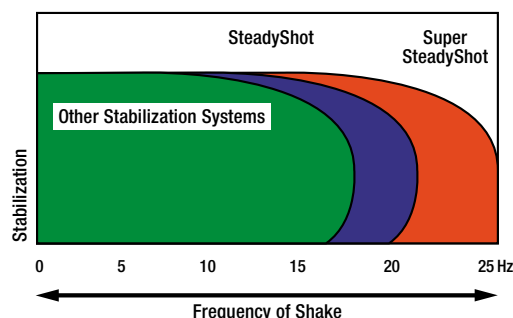


with Color Slow Shutter

with Super NightShot

Super SteadyShot Picture Stabilization**D8 DV MV****F Super SteadyShot Picture Stabilization****A Picture Stabilization System that utilizes motion sensors to detect and compensate for high frequency camcorder motion.****B Camcorder “jitter” and “shake” is minimized, without any change to the size or the quality of the image, even when shooting from a moving vehicle.**

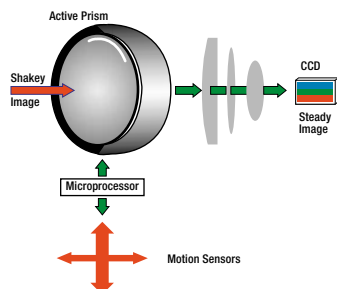
Unlike most other stabilization systems, the Sony Super SteadyShot system uses horizontal and vertical motion sensors that allow it to work accurately while zooming and shooting moving objects, or even in low light situations. Super SteadyShot Stabilization is designed to minimize more high frequency vibration (like you might experience in a moving vehicle), to provide Sony's best picture stabilization technology.



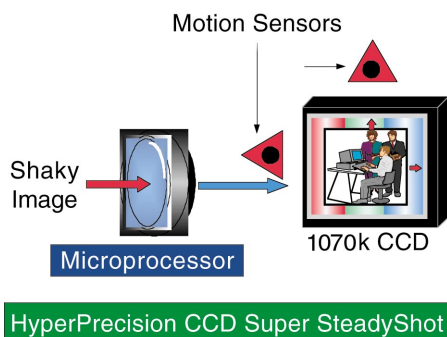
Super SteadyShot HyperPrecision Chip: The HyperPrecision SteadyShot system uses an oversized CCD chip with up to 1,550K pixels. Only 330K pixels are required to deliver excellent picture quality, although Sony uses up to 690K. The extra pixels on the chip compensate for both horizontal and vertical motion of the camcorder, different from digital image stabilization systems. HyperPrecision SteadyShot system minimizes camcorder shake, without degrading the picture quality.

Super SteadyShot – Optical Active Prism: This system utilizes two lenses which compensate for horizontal and vertical movement of the camera, not the subject. The two lenses are bonded together with a small bellow, with a transparent plasma filling the area in between. The result is that the two lenses move based on the information provided by the motion sensors, the lenses simply refocus the image on the CCD, thereby minimizing the “jitters” created by the camera motion.

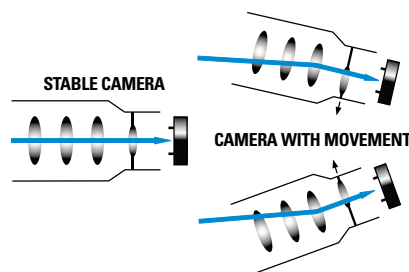
Active Prism Super SteadyShot



Super SteadyShot – Optical Floating Lens: Unlike competing camcorders, which adjust for and can be fooled by subject-movement, the Super SteadyShot Optical Stabilization System uses motion sensor and Floating Lens to compensate for unwanted camera movement. This bends the incoming light to minimize unwanted camera shake without image degradation.



Floating Lens Super SteadyShot System



SwivelScreen™ Color LCD Monitor

Hi8 D8 DV MV

F SwivelScreen™ Color LCD Monitor

A Color Active Matrix LCD Monitor that can swivel up to 270°.

B A color LCD monitor up to 3.5" diagonally, that's easy to use and lets you shoot from a variety of non-traditional angles like over a crowd or from low perspectives.

Active Matrix Thin Film Transistor (TFT): Sony's Active Matrix TFT LCD panel is a transparent wafer with a transistor for each pixel. The result is a more accurate way to address individual LCD pixels, which produces better color and detail.

Mirror Mode: Mirror Mode allows you to rotate the LCD screen 180 degrees. This lets you use the viewfinder to shoot the video, while the subject being videotaped can monitor himself on the color LCD screen. This is an excellent feature, particularly when shooting children, since most kids enjoy seeing themselves on TV. In addition, the On-Screen Display for the Mirror Mode will display the backlight, exposure dial, fader and end search graphics.

LCD Brightness Adjustment: Adjusts the brightness of the LCD for the best possible viewing.

Viewing Angle Tilt: You can tilt the LCD screen up to 30° for better, easier viewing while in playback mode.

Time Base Correction Hi8 D8 DV MV VW

F Time Base Correction

A Corrects the timing and stability of playback video.

B Eliminates jitters and color shifts for better, more professional looking video.

Time Base Correction (TBC) replaces the video signal with a clean sync pulse, to correct timing errors, which eliminates the “jitters” commonly found in home video.

USB Connection (Still Images/MPEG Movies)

Hi8 D8 DV MV VW

F USB Connection

A Universal Serial Bus, a digital interface offering high-speed transfer from one device to another.

B Provides an easy way to connect Sony Digital8, DV Handycam and MICROMV camcorders to computers for fast transfer of digital images and MPEG Movies.



Select Digital8, Mini DV and MICROMV Handycam camcorders use the supplied USB cable for easy transfer of digital still images and MPEG movies from the camcorder directly to the PC for image manipulation or email applications. The PC's USB port, allows the transfer of images in the universal JPEG and MPEG formats found on most current computers, thus making it easy to share images with family and friends online.

USB Streaming

Hi8 D8 DV VW

F USB Streaming

A Use your Handycam camcorder as an Internet based camera.

B Broadcast live videos with audio, capture still images, or playback previously recorded videos with an Internet and USB connection.

Stay in-touch with family and friends using Sony's USB Streaming and Microsoft's® NetMeeting software. Connect to the Internet and broadcast live video with audio, and even playback your favorite recorded video scenes via the USB connection. Live video streaming is not available on GV-D1000, only playback.

Note: Not compatible with Macintosh® computers.

What is USB Streaming?

USB Streaming is a convergence tool that allows you to use your Sony Handycam camcorder as a web-based video conferencing system. Using Microsoft® Windows® NetMeeting™ software (available in Windows® 98SE, Me, 2000 or XP), or many other compatible video conferencing software programs*, you can stream videos with audio across the Internet to stay in touch with family and friends.

*Please note that while Microsoft® Windows® NetMeeting™ is standard on most PCs, it is not the only compatible video conferencing software that can be used.

Why do you want USB Streaming?

Unlike a webcam, a Handycam camcorder equipped with USB Streaming function has a high-quality lens system providing better pictures during the broadcast. You can even playback pre-recorded videos that were stored on the videotape, on your Handycam camcorder equipped with USB Streaming function. Now that's cool!

Who can use USB Streaming ?

Anyone with a Handycam camcorder equipped with USB Streaming function and a computer with Microsoft® Windows NetMeeting™ software. The other parties are not required to have a Handycam™ camcorder equipped with USB Streaming function – but it wouldn't hurt to have the better optical quality and versatility of tape playback and recording!

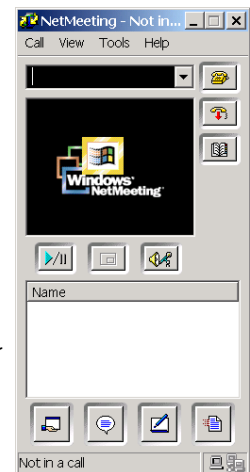
How do I use USB Streaming with Microsoft® Windows® NetMeeting™?

You will need to install the software supplied with the Handycam camcorder, which contains the USB drivers. Connect the USB cable from the Handycam camcorder and launch Microsoft® Windows NetMeeting™.

If you have not yet activated the NetMeeting™ software on your computer, follow this step-by-step procedure:

1. In "My Computer", open "C: Drive"
2. Open "Program Files" folder
3. Open "NetMeeting™" folder
4. Start "Conf" or "NetMeeting™" program.

If this is the first time you use NetMeeting™, you will need to register the application. Just follow the instructions. After completing the registration, the main NetMeeting™ window will appear as shown here:



You can go back to make any changes from your registration procedure in the "Tools" menu. Click on "Options" to make the necessary changes.

To make a call:

Turn the Handycam camcorder on and place the function switch in the "Camera" mode. Adjust the zoom and frame your subject – you'll see the sent image in the "picture in picture" window.

Insert the recipient's IP address at the blinking cursor. (Locate your computer's IP address under "About Windows NetMeeting™" in the "Help" menu)

For other methods of making a call, look in the "Help" menu.

Click the "Phone" icon to place a call.

During the call, use your USB Streaming-equipped Handycam camcorder to play pre-recorded videos. Quickly move the function switch to the "VTR" setting. Playback your tape as normal and monitor through the picture-in-picture window, viewfinder or SwivelScreen™ LCD display.

To disconnect the call, click the "hang-up" icon on the panel or "Hang-up" in the "Call" menu.

Consult the on-screen "help" menus for additional guidance on this versatile program.

White Balance**DV****F** White Balance**A** Different color temperature settings for different environments.**B** Videos will always be properly white balanced so that whites are white.

There are four settings available to obtain the correct white balance:

Tungsten: for indoor use @ 3200K

Daylight: for outdoor use @ 5800K

Manual: for setting with a white card to get the best results in any situation

Auto: automatically calibrates the white balance setting

World Time Clock**Hi8 D8 DV MV VW****F** World Time Clock**A** Allows the user to adjust time of the camcorder to a specific time zone.**B** Quick and easy compensation of time zone changes without having to completely reset the camera clock.

Sony's World Time Clock allows the traveler to select a time zone directly from the Handycam camcorder's on screen menu. No need to completely reset the clock. At the touch of a button you and your camcorder are in the right time zone.

Y Axis Zoom Control**MV****F** Y Axis Zoom Control**A** A newly designed zoom control that provides quick linear access to any of the eight zoom speeds (4 telephoto and 4 wide) in the camcorder.**B** Smaller design and more accurate control than a traditional zoom.

The traditional variable zoom control has been replaced by Sony's Y-axis zoom control. By replacing the standard zoom control with the Y-axis zoom, Sony has increased the user's ability to more precisely control zooming, providing a new level of performance and ease of use.

Zebra Pattern**DV****F** Zebra Pattern**A** Indicates when any part of the video is overexposed.**B** Whenever any part of the picture has too much light in it, stripes will appear over that area, letting you know that you need to adjust the exposure, gain or shutter settings.

This professional feature, found on the DCR-VX2000, alerts the camera operator to possible over-exposure of the video.

THE HI8™ STORY

Hi8™ Handycam® Camcorders: *The “entry level” never had it so good.*

America's Most Popular Camcorder Format

It's not hard to see why 8mm video came to lead the camcorder market. At the outset, nothing else delivered the picture quality, the compact size and the ease of use. And Sony ought to know. After all, Sony has long been the leader in 8mm camcorders. To this day, Sony Hi8™ Handycam® camcorders deliver tremendous features and benefits at very competitive prices.

Great 8

To a generation familiar with VHS, the advantages of 8mm recording were apparent right from the very beginning. These benefits continue to define Hi8™ Handycam® camcorders today—and continue to attract large numbers of satisfied customers.

- **Superb picture quality.** Thanks to the format's technical superiority, Hi8™ recording captures a visibly more detailed and realistic picture than VHS. The Hi8™ system achieves up to 400 lines of resolution—compared to 240 lines for standard VHS or VHS-C.
- **Smaller size.** The Hi8™ system uses Metal tape that packs about four times the magnetic energy of the oxide tape used for VHS. As a result, Hi8™ recording can store more information on a smaller cassette. And smaller cassettes mean smaller camcorders—a benefit that's apparent to anyone who has had to carry a camcorder around all day.
- **Superb sound.** Conventional VHS uses “linear” recording that's comparable in quality to AM radio. The Hi8™ system uses high fidelity Audio Frequency Modulation (AFM) that approaches the quality of Compact Disc!
- **Better protection for your memories.** As one more benefit, the Hi8™ cassette shell incorporates a special cover that protects the tape when it's outside the camcorder. So there's no chance that the tape will unspool from the cassette and no chance for fingerprint damage. Even dust contamination is reduced to a bare minimum. Compared to VHS and VHS-C, your customers' memories are not only clearer, they're safer.



Worry-Free® Operation

At Sony, we've long understood that the highest resolution, the best sound quality and the most advanced features are meaningless if people are too confused to operate the camcorder. That's why we set out to identify the most common concerns of first-time camcorder users and eliminate those worries one by one. The result: the Sony Worry-Free Recording™ enhancements.

- **5-Hour recording time.** No more worry about running out of tape. Captures up to five hours of memories on a single cassette.
- **Stamina® battery life.** No more fears about the flashing “out of battery” indicator. This feature provides far longer life than the typical rechargeable. And this year, customers can enjoy up to 15 hours of battery life with the optional NP-FM91 battery.
- **InfoLithium® battery.** No more uncertainty about how much battery life is left. Thanks to the AccuPower™ metering system, your customers can see the remaining battery time in minutes. And “memory effect” won't reduce battery life. You can even recharge the battery after a few minutes of use!
- **NightShot® system.** No more concerns about low light. Lets you shoot in total darkness up to ten feet away!
- **SteadyShot® picture stabilization.** No more worries about camera shake. This system stabilizes the picture.

Hi8™ Handycam® Camcorders: Moving Forward.

Even as the digital revolution continues to grow, Hi8™ Handycam® camcorders still have an important place in Sony's lineup. And Sony continues to enhance Hi8™ camcorder value and features. This year, we're introducing **USB Streaming**, allowing you to stream live video and audio over the Internet like a web cam. Sony's USB streaming enables you to communicate with friends and family around the world and because we built this feature into a camcorder you can also share video tape recordings with them as well. Sony's USB Streaming can be used with most video conferencing software such as Microsoft® NetMeeting™. Sony's USB Streaming feature is the first time we have incorporated a truly digital feature into an analog camcorder and is just the latest enhancement to the product line that has attracted more camcorder owners than any other— Sony 8mm/Hi8™ video.

CCD-TRV108

Analog Handycam® Camcorder



FEATURES

► Video Hi8™ Recording

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

1/6" CCD Imager, 270K Pixels Gross

1/6" CCD imager with 250K (effective) pixels provides great detail and clarity, with exceptional analog video performance.

► 20X Optical/460X 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" Color SwivelScreen™ LCD Display (61K Pixels)

Provides excellent viewing clarity with improved resolution. The 61K pixels LCD rotates up to 270-degrees for multiple viewing angles providing a sharp detailed image 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.

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® Infrared System



With Sony's NightShot® Infrared system you can capture video even when shooting in total darkness (0 lux) up to 10 feet away using the built-in infrared system.

Stamina® Power Management System



Using the optional NP-FM91 InfoLithium® battery the CCD-TRV108 can record up to 15.5 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, 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, Black & White, 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 most recently 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, Black & White, Bounce and Stripe.

Titling

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

► STEP-UP FEATURE

CCD-TRV108

SPECIFICATIONS

Imaging Device: 1/6", 270K Gross Pixels CCD

Video Actual: 250K Pixels

Still Actual: N/A

F: 1.4 – 2.9

Focal Distance: 3.6 – 72mm

35mm Conversion: 51.8 – 1036mm

Filter Diameter: 37mm

Optical Zoom: 20X

Digital Zoom: 460X

Focusing: Full Range Auto/Manual (Dial)

Minimum Illumination: 1 Lux (0 Lux with NightShot® Infrared System)

NightShot Infrared System: Yes

Shutter Speed: 1/60 -1/4000 (AE Mode)

Viewfinder: Black and White (90K Pixels)

LCD: 2.5" Color, 61K Pixels

Accessory Shoe: N/A

Video Input/Output: No/Yes (S-Video/Mini)

Audio Input/Output: No/Yes (Mono)

USB Terminal: N/A

USB Streaming: N/A

Headphone Jack: N/A

Mic-Input: N/A

White Balance: Auto

Exposure: Yes, Dial (24 Steps)

Power Consumption (VF/LCD/VF+LCD): 1.9W/2.6W/2.8W

Dimensions (WHD): 3 5/8" x 4 1/8" x 7 7/8" (90mm x 102mm x 197mm)

Weight: 2 lbs 1 oz (935g) w/Battery

Supplied Accessories: AC-L10 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)	Rec Time VF/LCD/VF+LCD	Playback Time LCD/VF
NP-FM30	165/120/110 min	120/175 min
NP-FM50	265/195/180 min	195/280 min
NP-FM70	540/400/370 min	400/570 min
NP-QM71	640/465/430 min	465/675 min
NP-FM91	955/695/645 min	695/1010 min
NP-QM91	955/695/645 min	695/1010 min

*Results may vary

OPTIONAL ACCESSORIES

AC-SC950D AC Quick Charger for Super Quick batteries	VCL-ES20A Telephoto Lens
AC-VQ850D AC/DC Adaptor Quick Charger	VCL-R2037X High Grade Telephoto Lens
PC-VM50 Portable AC Charger	VF-R37K Neutral Density Filter Kit
DCC-L50 Car Battery Adapter Cable	VF-37PK Polarizing Filter Kit
LCS-VA2 Carrying Case	VCT-670RM Remote Control Tripod
LCS-VA1 Carrying Case	VCT-570RM Remote Control Tripod
ACC-KITFM50 Handycam Camcorder Starter Kit	VCT-R610 Lightweight Tripod
VCL-O637H Wide Angle Lens	VCT-TK1 Pocket Tripod
VCL-HG0737X High Grade Wide Angle Lens	
VCL-ES06A Wide Angle Lens	

SONY

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Features and specifications subject to change without notice.
Non-metric weights and measures are approximate.

CCD-TRV308

Analog Handycam® Camcorder



FEATURES

Video Hi8™ Recording

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

1/4" CCD Imager, 320K Pixels Gross

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2.5" Color SwivelScreen™ LCD Display (61K Pixels)

Provides excellent viewing clarity with improved resolution. The 61K pixels LCD rotates up to 270-degrees for multiple viewing angles providing a sharp detailed image for monitoring or playback.

► SteadyShot® Picture Stabilization System



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

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With Sony's NightShot® Infrared system you can capture video even when shooting in total darkness (0 lux) up to 10 feet away using the built-in infrared system.

Stamina® Power Management System



Using the optional NP-FM91 InfoLithium® battery the CCD-TRV308 can record up to 15.5 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, 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, Black & White, 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 most recently 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, Black & White, Bounce and Stripe.

Titling

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

► 3 Watt Built-In Video Light

Brightens your videos when shooting in low light.

CCD-TRV308

SPECIFICATIONS

Imaging Device: 1/4", 320K Gross Pixels CCD

Video Actual: 200K Pixels

Still Actual: N/A

F: 1.4 – 2.9

Focal Distance: 3.6 – 72mm

35mm Conversion: 41 – 820mm

Filter Diameter: 37mm

Optical Zoom: 20X

Digital Zoom: 460X

Focusing: Full Range Auto/Manual (Dial)

Minimum Illumination: 0.4 Lux (0 Lux with NightShot®
Infrared System)

Video Light: Built-in (3 watt)

NightShot Infrared System: Yes

Shutter Speed: 1/60 -1/4000 (AE Mode)

Viewfinder: Black and White (113K Pixels)

LCD: 2.5" Color, 61K Pixels

Accessory Shoe: No

Video Input/Output: No/Yes (S-Video/Mini)

Audio Input/Output: No/Yes (Mono)

USB Terminal: N/A

USB Streaming: N/A

Headphone Jack: N/A

Mic-Input: N/A

White Balance: Auto

Exposure: Yes, Dial (24 Steps)

Power Consumption (VF/LCD/VF+LCD): 1.9W/2.6W/2.8W

Dimensions (WHD): 3 5/8" x 4 1/8" x 7 7/8" (90mm x 102mm x 197mm)

Weight: 2 lbs 1 oz (935g) w/Battery

Supplied Accessories: AC-L10 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)	Rec Time VF/LCD/VF+LCD	Playback Time LCD/VF
NP-FM30	165/120/110 min	120/175 min
NP-FM50	265/195/180 min	195/280 min
NP-FM70	540/400/370 min	400/570 min
NP-QM71	640/465/430 min	465/675 min
NP-FM91	955/695/645 min	695/1010 min
NP-QM91	955/695/645 min	695/1010 min

*Results may vary

OPTIONAL ACCESSORIES

AC-SC950D AC Quick Charger for Super Quick batteries	VCL-ES20A Telephoto Lens
AC-VQ850D AC/DC Adaptor Quick Charger	VCL-R2037X High Grade Telephoto Lens
PC-VM50 Portable AC Charger	VF-R37K Neutral Density Filter Kit
DCC-L50 Car Battery Adapter Cable	VF-37PK Polarizing Filter Kit
LCS-VA2 Carrying Case	VCT-R610 Tripod
LCS-VA1 Carrying Case	VCT-670RM Remote Control Tripod
ACC-KITFM50 Handycam Camcorder Starter Kit	VCT-570RM Remote Control Tripod
VCL-O637H Wide Angle Lens	VCT-R610 Lightweight Tripod
VCL-HG0737X High Grade Wide Angle Lens	VCT-TK1 Pocket Tripod
VCL-ES06A Wide Angle Lens	

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Features and specifications subject to change without notice.
Non-metric weights and measures are approximate.

CCD-TRV608

Analog Handycam® Camcorder



FEATURES

Video Hi8™ Recording

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

1/4" CCD Imager, 320K Pixels Gross

1/4" CCD imager with 200K (effective) pixels provides great detail and clarity, with exceptional analog video performance.

➤ 20X Optical/560X 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.

➤ 3.0" Color SwivelScreen™ LCD Display (123K Pixels)

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

SteadyShot® Picture Stabilization System



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

➤ USB Streaming

Stay connected with family and friends by broadcasting live video with audio, via the internet with the USB interface. You can even playback your favorite recorded scene stored on tape. It's like having your own web camera and video conferencing system.

➤ USB Interface

USB interface provides an easy way to connect the Digital Handycam camcorder to computers.

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.

Easy Dubbing

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

NightShot® Infrared System



With Sony's NightShot® Infrared system you can capture video even when shooting in total darkness (0 lux) up to 10 feet away using the built-in infrared system.

Stamina® Power Management System



Using the optional NP-FM91 InfoLithium® battery the CCD-TRV608 can record up to 15.5 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, 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, Black & White, 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 most recently 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, Black & White, Bounce and Stripe.

Titling

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

➤ STEP-UP FEATURE

CCD-TRV608

SPECIFICATIONS

Imaging Device: 1/4", 320K Gross Pixels CCD

Video Actual: 200K Pixels

Still Actual: N/A

F: 1.4 – 2.9

Focal Distance: 3.6 – 72mm

35mm Conversion: 41 – 820mm

Filter Diameter: 37mm

Optical Zoom: 20X

Digital Zoom: 560X

Focusing: Full Range Auto/Manual (Dial)

Minimum Illumination: 0.4 Lux (0 Lux with NightShot® Infrared System)

Video Light: Built-in (3 watt)

NightShot Infrared System: Yes

Shutter Speed: 1/60 -1/4000 (AE Mode)

Viewfinder: Black and White (113K)

LCD: 3.0" Color, 123K Pixels

Accessory Shoe: N/A

Video Input/Output: No/Yes (S-Video/Mini)

Audio Input/Output: No/Yes (Mono)

USB Terminal: Yes

USB Streaming: Yes, 320 x 240 (up to 30 frames/sec.)

Headphone Jack: N/A

Mic-Input: N/A

White Balance: Auto

Exposure: Yes, Dial (24 Steps)

Software OS Compatibility: USB Streaming Only,
Microsoft® Windows® 98SE, 2000, Me, XP

Power Consumption (VF/LCD/VF+LCD): 1.9W/3.1W/3.3W

Dimensions (WHD): 3 5/8" x 4 1/8" x 7 7/8" (90mm x 102mm x 197mm)

Weight: 2 lbs 1 oz (935g) w/Battery

Supplied Accessories: AC-L10 Power Adaptor/In Camera
Charger, NP-FM30 InfoLithium Rechargeable Battery,
Mono A/V Cable, Lens Cap, Shoulder Strap, USB
Cable, CD-ROM with USB Driver (PIXELA
ImageMixer Ver. 1.0)

worry FREE

BATTERY LIFE

Battery* (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD/VF
NP-FM30	165/100/90 min	100/175 min
NP-FM50	265/160/150 min	160/280 min
NP-FM70	540/335/310 min	335/570 min
NP-QM71	640/390/365 min	390/675 min
NP-FM91	955/585/550 min	585/1010 min
NP-QM91	955/585/550 min	585/1010 min

*Results may vary

OPTIONAL ACCESSORIES

AC-SC950D AC Quick Charger for Super Quick batteries	VCL-ES06A Wide Angle Lens
AC-VQ850D AC/DC Adapter Quick Charger	VCL-ES20A Telephoto Lens
PC-VM50 Portable AC Charger	VCL-R2037X High Grade Telephoto Lens
DCC-L50 Car Battery Adapter Cable	VF-R37K Neutral Density Filter Kit
LCS-VA2 Carrying Case	VF-37PK Polarizing Filter Kit
LCS-VA1 Carrying Case	VCT-670RM Remote Control Tripod
ACC-KITFM50 Handycam Camcorder Starter Kit	VCT-570RM Remote Control Tripod
VCL-0637H Wide Angle Lens	VCT-R610 Lightweight Tripod
VCL-HG0737X High Grade Wide Angle Lens	VCT-TK1 Pocket Tripod

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tions subject to change without notice. Non-metric weights and measures are approximate.

Hi8

	CCD-TRV108	CCD-TRV308	CCD-TRV608
SPPG	\$299	\$349	\$399
A/V Performance			
Video Recording System	Hi8	Hi8	Hi8
Video Playback System	Hi8, 8mm	Hi8, 8mm	Hi8, 8mm
Audio Recording System	HiFi Mono	HiFi Mono	HiFi Mono
Audio Playback System	HiFi Mono	HiFi Mono	HiFi Mono
CCD Imaging Device (gross pixels)	1/6" (270K)	1/4" (320K)	1/4" (320K)
Filter Diameter	37mm	37mm	37mm
Digital Noise Reduction/TBC	Yes/Yes	Yes/Yes	Yes/Yes
NightShot Infrared System	Yes	Yes	Yes
Optimum Recording Control (Menu)	Yes	Yes	Yes
Optical Zoom Lens (variable control)	20X	20X	20X
Digital Zoom	460X	460X	560X
SteadyShot Picture Stabilization	N/A	Yes (Electronic)	Yes (Electronic)
LP Recording Time	Yes	Yes	Yes
Minimum Illumination (w/o NightShot)	1.0 lux	0.4 lux	0.4 lux
Minimum Illumination (w/NightShot)	0 lux	0 lux	0 lux
Shutter Speed	1/60 - 1/4000 (AE Mode)	1/60 - 1/4000 (AE Mode)	1/60 - 1/4000 (AE Mode)
Power Management			
Stamina Battery Life	Up To 15.5 Hours	Up To 15.5 Hours	Up To 15.5 Hours
Accupower Battery Meter	Yes	Yes	Yes
Convenience			
SwivelScreen LCD Monitor (diagonal)	2.5"	2.5"	3.0"
Viewfinder	B/W	B/W	B/W
Control-L (LANC) Edit interface	N/A	N/A	N/A
Audio Input	N/A	N/A	N/A
Video Inputs	N/A	N/A	N/A
Built-In Video Light	N/A	Yes	Yes
Built-In Speaker	Yes	Yes	Yes
USB Interface	N/A	N/A	Yes
Edit Search	N/A	N/A	N/A
World Time Clock	Yes	Yes	Yes
Accessory Shoe	N/A	N/A	N/A
Remote Control	N/A	N/A	N/A
Dimensions (W x H x D)	3 5/8" x 4 1/8" x 7 7/8" 90mm x 102mm x 197mm	3 5/8" x 4 1/8" x 7 7/8" 90mm x 102mm x 197mm	3 5/8" x 4 1/8" x 7 7/8" 90mm x 102mm x 197mm
Weight (w/o Tape and Battery)	1 lb 14 oz (850g)	1 lb 14 oz (850g)	1 lb 14 oz (850g)
Special Features			
Picture Effects	8 Modes	8 Modes	8 Modes
Digital Picture Effects	N/A	N/A	N/A
Audio/Video Digital Fader	5 Modes	5 Modes	5 Modes
Advanced Five-Language Title	Yes	Yes	Yes
16:9 Recording	Yes	Yes	Yes
Digital Photo Mode	N/A	N/A	N/A
USB Streaming	N/A	N/A	Yes
Easy Dubbing	Yes	Yes	Yes
Manual Controls			
Program Auto Exposure	6 Mode	6 Mode	6 Mode
Manual Focus	Yes (Dial)	Yes (Dial)	Yes (Dial)
Manual Exposure	Yes (Dial)	Yes (Dial)	Yes (Dial)

Digital8® Handycam® Camcorders: *The easy transition to the digital world.*

The Worry-Free® Migration

First, Sony helped launch Mini DV Handycam® camcorders, establishing digital as the ultimate in home movies. Then Sony tackled the next step. How to bring 8mm video—the most popular camcorder format in the United States—into the digital age? The answer was the Digital8® Handycam® camcorder.

Not another format, Digital8® recording represents the evolution of 8mm video. Most Digital8® Handycam® camcorders enable consumers to play back all the memories they've recorded on 8mm and Hi8™ cassettes. Yet when the time comes to capture new memories, these same customers will enjoy spectacular digital images and digital sound.

Digital8® Handycam® camcorders accomplish these goals because they combine a mechanism based on 8mm camcorders with the digital encoding/decoding electronics of Mini DV camcorders. The result is an unbeatable combination of digital quality and analog compatibility.



The Four Cornerstones of Digital8® Recording

From the outset, the Digital8® system has offered four consumer benefits of supreme importance.

- **Studio-quality digital pictures.** By taking advantage of the same data encoding system as DV, Digital8® recording can capture pictures of spectacular quality. This year, recorded resolution is up to 520 horizontal lines on select models with megapixel image sensors. This is visibly better than broadcast television. And resolution is only part of the story. By recording two separate R-Y, B-Y color “components,” the Digital8® system captures three times as much color information as VHS. You’ll see far brighter, richer, more vibrant color, including purples and reds that previous systems just can’t record. At its best, the Digital8® system looks less like home video and more like what you’d expect from a broadcast television studio.

- **CD quality digital sound.** Digital8® recording offers the same 16-bit PCM stereo sound quality as the Compact Disc. So customers enjoy broad dynamic range and full frequency response. You can record in 16-bit mode with one pair of CD-quality stereo tracks—or in 12-bit mode with two sets of tracks for adding music or narration when connecting to a compatible DV camcorder or deck.

- **i.LINK® connectivity and digital editing.** The i.LINK® (IEEE 1394 DV input/output) connector and PC editing software are now featured in millions of home PCs. Which means you can shoot, connect, enhance, edit and copy the results back to tape to share with friends and family! There’s more. Digital copying means near-perfect copying, without the “generation loss” that visibly degrades the image of analog tapes.



- **Backward compatibility.** Thanks to Sony’s original inspiration, most Digital8® Handycam® camcorders are able to play back your customers’ libraries of analog 8mm and Hi8™ cassettes. In addition, all Digital8® camcorders can record on inexpensive, easy-to-find Hi8™ or 8mm cassettes. And with the camcorder’s analog inputs, you can even archive your analog tapes on handy, affordable Digital8® cassettes!

The Benefits of Digital8® Recording

In typical Sony fashion, we’ve worked hard to enhance our Digital8® product line with an ever-increasing list of features, capabilities and refinements.

- **Still image capture.** Forget about toting around both a camcorder and still camera. Every Sony Digital8® Handycam® camcorder offers either Photo Mode (to save still images onto videotape) or Digital Still Memory Mode (to save still images onto the supplied Memory Stick® media). Back at your PC, you can email these pictures to friends or family. Or use them to enhance your newsletters, websites, presentations and more!
- **Mega Pixel image sensor.** Selected Digital8® Handycam® camcorders can capture still images at almost two times standard VGA resolution. These photos are perfect for printing in brochures and newsletters. And they’re ideal for larger color prints that you can frame. Megapixel technology also improves the video image, increasing the horizontal resolution to as much as 520 lines.
- **USB Streaming,** allows you to stream live video and audio over the Internet like a web cam. Sony’s USB streaming enables you to communicate with friends and family around the world and because we built this feature into a camcorder you can also share video tape recordings with them as well. Sony’s USB Streaming can be used with most video conferencing software such as Microsoft® NetMeeting™. USB Streaming is just the latest enhancement to the digital product line that has attracted more camcorder owners than any other — Sony Digital8™ Handycam camcorders.
- **MPEG movie mode.** MPEG movies can be stored on Memory Stick® media and distributed in emails, on websites or in PowerPoint® presentations.
- **Memory Stick® media.** Compatible Digital8® Handycam® camcorders store still images and MPEG movies on Memory Stick® media, which can slide right out of the camcorder and into a growing range of PCs, handhelds, digital cameras, cell phones, music players, retail photo kiosks and more. Over 25 million devices with Memory Stick® media capability have already been sold. And the number is growing every day.
- **Super NightShot infrared system and Color Slow Shutter.** Not only can your customers capture subjects in total darkness. Now they can do it in color! The latest Super NightShot mode automatically slows down the shutter, admitting more light that images are captured and played back in color.

DCR-TRV140

Digital Handycam® Camcorder



FEATURES

► Digital8® Video Recording

Digital8 recording format delivers 3x the color bandwidth of VHS with significantly less video noise providing stunning video performance. Digital8 format records digital audio and video comparable to Mini DV on affordable Hi8™ tapes.

► 1/4" CCD Imager, 460K Pixels Gross

1/4" CCD imager with 290K (effective) pixels provides great detail and clarity, with exceptional digital video performance.

► Up to 500 Lines of Horizontal Resolution

Enjoy digitally recorded video with up to 500 lines of horizontal resolution for outstanding video quality comparable to DV and DVD performance.

20X Optical/560X 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 (61K Pixels)

Provides excellent viewing clarity with improved resolution. The 61K pixels LCD rotates up to 270-degrees for multiple viewing angles providing a sharp detailed image for monitoring or playback.

SteadyShot® Picture Stabilization System



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

► i.LINK® DV Interface (IEEE1394)



A high speed bi-directional digital video/audio communication between two devices equipped with a IEEE1394 interface, including camcorders, digital VCRs, and PCs.

USB Streaming

Stay connected with family and friends by broadcasting live video with audio, via the internet with the USB interface. You can even playback your favorite recorded scene stored on tape. It's like having your own web camera and video conferencing system.

USB Interface

USB interface provides an easy way to connect the Digital Handycam camcorder to computers.

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.

► Super NightShot and Color Slow Shutter



With Sony's Super NightShot, capture video in total darkness (0 lux) up to 10 feet away. Super NightShot mode automatically adjusts the shutter speed to increase picture brightness and clarity. Color Slow Shutter mode allows you to record in low light situations with full color detail by slowing down the shutter speed.

Stamina® Power Management System



Using the optional NP-FM91 InfoLithium® battery the DCR-TRV140 can record up to 10.5 hours on one complete charge, providing extra long battery life.

► 12-Bit/16-Bit PCM Digital Stereo

16-bit recording offers the same, outstanding sound quality as Compact Disc. 12-bit recording enables you to add an additional audio track with compatible audio dubbing equipment or i.LINK® interface/connector compatible computers.

► Photo Mode

Using Sony's unique Adaptive Frame Interpolation for better image quality, you can store hundreds of individual still images with 7 seconds of audio on the videotape.

► Playback Zoom

During video playback, pause mode, or while viewing still images, you can zoom in 2X closer. These newly cropped images can be viewed closer to see greater detail.

► Digital Program Editing

Allows you to select a sequence of 20 scenes and controls dubbing via i.LINK® interface/connector to another compatible i.LINK® camcorder, or via infra-red remote to an analog VCR. Controls both Sony and other brand camcorder and VCRs.

Program AE (Auto Exposure) Modes

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

Picture Effect Modes

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

Digital Picture Effects

Expand your digital creative options by adding picture effects to your still images and videos. Choose from Still, Flash Motion, Luminance, Slow Shutter, Trail and Old Movie. Some effects may not be available in the Memory Mode.

Fader Modes

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

► STEP-UP FEATURE

DCR-TRV140

ADDITIONAL FEATURES

► Interval/Frame Recording

SPECIFICATIONS

Imaging Device: 1/4", 460K Gross Pixels CCD

Video Actual: 290K Pixels

Still Actual: N/A

F: 1.4 – 2.9

Focal Distance: 3.6 – 72mm

35mm Conversion: 41 – 820mm

Filter Diameter: 37mm

Optical Zoom: 20X

Digital Zoom: 560X

Focusing: Full Range Auto/Manual (Dial)

Minimum Illumination: 1 Lux (0 Lux with NightShot® Infrared System)

Video Light: Built-in (3 watt)

NightShot Infrared System: Super NightShot, Color Slow Shutter

Shutter Speed: Auto, 1/4-1/4000 (AE Mode)

Viewfinder: Black and White (113K)

LCD: 2.5" Color, 61K Pixels

Accessory Shoe: N/A

Portable Printer Capable: No

Video Input/Output: No/Yes (S-Video/Mini A/V)

Audio Input/Output: No/Yes (Stereo)

i.LINK® DV Interface (IEEE1394): Yes

USB Terminal: Yes

USB Streaming: Yes, 320 x 240 (up to 30 frames/sec.)

Headphone Jack: N/A

Mic-Input: N/A

White Balance: Auto

Exposure: Yes, Dial (24 Steps)

Power Consumption (VF/LCD/VF+LCD): 2.8W/3.5W/3.7W

Software OS Compatibility: Microsoft® Windows® 98SE, 2000, Me, XP; Macintosh® 8.5.1 - 9.1**

Dimensions (WHD): 3 5/8" x 4 1/8" x 7 7/8" (90mm x 102mm x 197mm)

Weight: 2 lbs 1 oz (935g) w/Battery

Supplied Accessories: AC-L10 Power Adapter/In Camera Charger, NP-FM30 InfoLithium Rechargeable Battery, RMT-814 Wireless Remote Commander® Remote, 2 AA Batteries, A/V Cable, Lens Cap, Shoulder Strap, USB Cable, CD-ROM with USB Driver (PIXELA ImageMixer Ver. 1.0)

worry FREE

BATTERY LIFE

Battery* (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FM30	110/85/80 min	85/115 min
NP-FM50	180/140/135 min	140/185 min
NP-FM70	370/295/275 min	295/385 min
NP-QM71	430/340/325 min	345/445 min
NP-FM91	645/520/490 min	520/670 min
NP-QM91	645/520/490 min	520/670 min

*Results may vary

OPTIONAL ACCESSORIES

AC-SC950D AC Quick Charger for Super Quick batteries	VCL-ES06A Wide Angle Lens
AC-VQ850D AC/DC Adapter Quick Charger	VCL-ES20A Telephoto Lens
PC-VM50 Portable AC Charger	VCL-R2037X High Grade Telephoto Lens
DCC-L50 Car Battery Adapter Cable	VF-R37K Neutral 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-670RM Remote Control Tripod
VCL-0637H Wide Angle Lens	VCT-570RM Remote Control Tripod
VCL-HG0737X High Grade Wide Angle Lens	VCT-R610 Lightweight Tripod
	VCT-TK1 Pocket Tripod

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* i.LINK is a trademark of Sony, used only to designate that a product contains an IEEE 1394 connector. All products with an IEEE 1394 connector may not communicate with each other.

** Not compatible with USB Streaming.

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DCR-TRV240

Digital Handycam® Camcorder



FEATURES

Digital8® Video Recording

Digital8 recording format delivers 3X the color bandwidth of VHS with significantly less video noise providing stunning video performance. Digital8 format records digital audio and video comparable to Mini DV on affordable Hi8™ tapes.

► Backwards Compatible

Play back existing 8mm and Hi8 analog recorded tapes.

1/6" CCD Imager, 460K Pixels Gross

1/6" CCD imager with 290K (effective) pixels provides great detail and clarity, with exceptional digital video performance.

Up to 500 Lines of Horizontal Resolution

Enjoy digitally recorded video with up to 500 lines of horizontal resolution for outstanding video quality comparable to DV and DVD performance.

► 25X Optical/700X 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 (61K Pixels)

Provides excellent viewing clarity with improved resolution. The 61K pixels LCD rotates up to 270-degrees for multiple viewing angles providing a sharp detailed image for monitoring or playback.

SteadyShot® Picture Stabilization System



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

i.LINK® DV Interface (IEEE1394)



A high speed bi-directional digital video/audio communication between two devices equipped with a IEEE1394 interface, including camcorders, digital VCRs, and PCs.

► Analog-to-Digital Conversion with Pass-Through

Convert and/or record any analog NTSC video source to digital video via the analog inputs. Analog NTSC video can also be passed-through the Digital Handycam camcorder directly into a PC via the i.LINK® interface in real time for easy PC editing of your analog footage.

USB Streaming

Stay connected with family and friends by broadcasting live video with audio, via the internet with the USB interface. You can even playback your favorite recorded scene stored on tape. It's like having your own web camera and video conferencing system.

USB Interface

USB interface provides an easy way to connect the Digital Handycam camcorder to computers.

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.

Super NightShot and Color Slow Shutter



With Sony's Super NightShot, capture video in total darkness (0 lux) up to 10 feet away. Super NightShot mode automatically adjusts the shutter speed to increase picture brightness and clarity. Color Slow Shutter mode allows you to record in low light situations with full color detail by slowing down the shutter speed.

Stamina® Power Management System



Using the optional NP-FM91 InfoLithium battery the DCR-TRV240 can record up to 10 hours on one complete charge, providing extra long battery life.

12-Bit/16-Bit PCM Digital Stereo

16-bit recording offers the same, outstanding sound quality as Compact Disc. 12-bit recording enables you to add an additional audio track with compatible audio dubbing equipment or i.LINK® interface/connector compatible computers.

Photo Mode

Using Sony's unique Adaptive Frame Interpolation for better image quality, you can store hundreds of individual still images with 7 seconds of audio on the videotape.

Playback Zoom

During video playback, pause mode, or while viewing still images, you can zoom in 2X closer. These newly cropped images can be viewed closer to see greater detail.

Digital Program Editing

Allows you to select a sequence of 20 scenes and controls dubbing via i.LINK® interface/connector to another compatible i.LINK® camcorder, or via infra-red remote to an analog VCR. Controls both Sony and other brand camcorder and VCRs.

► STEP-UP FEATURE

DCR-TRV240

ADDITIONAL FEATURES

Program AE (Auto Exposure) Modes	Fader Modes
Picture Effect Modes	Interval/Frame Recording
Digital Picture Effects	Intelligent Accessory Shoe

SPECIFICATIONS

Imaging Device: 1/6", 460K Gross Pixels CCD
Video Actual: 290K Pixels
Still Actual: N/A
F: 1.6 – 2.7
Focal Distance: 2.4 – 60mm
35mm Conversion: 42 – 1050mm
Filter Diameter: 37mm
Optical Zoom: 25X
Digital Zoom: 700X
Focusing: Full Range Auto/Manual (Ring)
Minimum Illumination: 4 Lux (0 Lux with NightShot® Infrared System)
NightShot Infrared System: Super NightShot, Color Slow Shutter
Shutter Speed: Auto, 1/4-1/4000 (AE Mode)
Viewfinder: Black and White (113K)
LCD: 2.5" Color, 61K Pixels
Accessory Shoe: Yes (Intelligent)
Portable Printer Capable: No
Video Input/Output: Yes/Yes (S-Video/Mini A/V)
Audio Input/Output: Yes/Yes (Stereo)
i.LINK® DV Interface (IEEE1394): Yes
USB Terminal: Yes
USB Streaming: Yes, 320 x 240 (up to 30 frames/sec.)
Headphone Jack: Yes, Mini (Stereo)
Mic-Input: Yes (Stereo)
White Balance: Auto
Exposure: Yes, Dial (24 Steps)
Power Consumption (VF/LCD/VF+LCD): 3.0W/3.8W/4.0W
Software OS Compatibility: Microsoft® Windows® 98SE, 2000, Me, XP; Macintosh® 8.5.1 - 9.1**
Dimensions (WHD): 3 3/8" x 4" x 8 1/8" (85mm x 101mm x 206mm)
Weight: 2 lbs 2 oz (965g) w/Battery
Supplied Accessories: AC-L10 Power Adapter/In Camera Charger, NP-FM30 InfoLithium® Rechargeable Battery, RMT-814 Wireless Remote Commander® Remote, 2 AA Batteries, A/V Cable, Lens Cap, Shoulder Strap, USB Cable, PIXELA ImageMixer Ver. 1.0 Software/USB Driver

worry FREE

BATTERY LIFE

Battery* (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FM30	100/80/75 min	80/110 min
NP-FM50	165/130/120 min	130/180 min
NP-FM70	345/270/255 min	270/370 min
NP-QM71	400/315/300 min	315/430 min
NP-FM91	605/475/455 min	475/645 min
NP-QM91	605/475/455 min	475/645 min

*Results may vary

OPTIONAL ACCESSORIES

AC-SC950D AC Quick Charger for Super Quick batteries	VCL-ES20A Telephoto Lens
AC-VQ850D AC/DC Adapter Quick Charger	VCL-R2037X High Grade Telephoto Lens
PC-VM50 Portable AC Charger	VF-R37K Neutral Density Filter Kit
DCC-L50 Car Battery Adapter Cable	VF-37PK Polarizing Filter Kit
LCS-VA2 Carrying Case	VCT-R610 Tripod
LCS-VA1 Carrying Case	VCT-670RM Remote Control Tripod
ACC-KITFM50 Handycam Camcorder Starter Kit	VCT-570RM Remote Control Tripod
VCL-0637H Wide Angle Lens	VCT-R610 Lightweight Tripod
VCL-HG0737X High Grade Wide Angle Lens	VCT-TK1 Pocket Tripod
VCL-ES06A Wide Angle Lens	

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* i.LINK is a trademark of Sony, used only to designate that a product contains an IEEE 1394 connector. All products with an IEEE 1394 connector may not communicate with each other.

** Not Compatible with USB Streaming.

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DCR-TRV340

Digital Handycam® Camcorder



FEATURES

Digital8® Video Recording

Digital8 recording format delivers 3X the color bandwidth of VHS with significantly less video noise providing stunning video performance. Digital8 format records digital audio and video comparable to Mini DV on affordable Hi8™ tapes.

Backwards Compatible

Play back existing 8mm and Hi8 analog recorded tapes.

1/6" CCD Imager, 460K Pixels Gross

1/6" CCD imager with 290K (effective) pixels provides great detail and clarity, with exceptional digital video performance. Realize good looking digital still images utilizing 290K (effective) pixels.

Up to 500 Lines of Horizontal Resolution

Enjoy digitally recorded video with up to 500 lines of horizontal resolution for outstanding video quality comparable to DV and DVD performance.

25X Optical/700X 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 (61K Pixels)

Provides excellent viewing clarity with improved resolution. The 61K pixels LCD rotates up to 270-degrees for multiple viewing angles providing a sharp detailed image for monitoring or playback.

SteadyShot® Picture Stabilization System



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

► Digital Still Memory Mode with Memory Stick® Media



Digital Still Memory Mode captures high quality still images up to 640x480 resolution directly to Memory Stick® media. Images are stored in a JPEG format providing easy transfer to PCs for email, printing, or sharing with family and friends.

► MPEG Movie Mode



MPEG Movie Mode captures MPEG1 compressed video and audio files to Memory Stick media. These clips are ideal for websites or emailing to family and friends via the internet.

i.LINK®* DV Interface (IEEE1394)



A high speed bi-directional digital video/audio communication between two devices equipped with a IEEE1394 interface, including camcorders, digital VCRs, and PCs.

Analog-to-Digital Conversion with Pass-Through

Convert and/or record any analog NTSC video source to digital video via the analog inputs. Analog NTSC video can also be passed-through the Digital Handycam camcorder directly into a PC via the iLINK interface in real time for easy PC editing of your analog footage.

USB Streaming

Stay connected with family and friends by broadcasting live video with audio, via the internet with the USB interface. You can even playback your favorite recorded scene stored on tape. It's like having your own web camera and video conferencing system.

USB Interface

USB terminal provides an easy way to connect Digital Handycam camcorder to computers for fast transfer of digital images and MPEG movies stored on Memory Stick media.

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.

Super NightShot and Color Slow Shutter



With Sony's Super NightShot, capture video in total darkness (0 lux) up to 10 feet away. Super NightShot mode automatically adjusts the shutter speed to increase picture brightness and clarity. Color Slow Shutter mode allows you to record in low light situations with full color detail by slowing down the shutter speed.

Stamina® Power Management System



Using the optional NP-FM91 InfoLithium battery the DCR-TRV340 can record up to 10 hours on one complete charge, providing extra long battery life.

Photo Mode

Using Sony's unique Adaptive Frame Interpolation for better image quality, you can store hundreds of individual still images with 7 seconds of audio on the videotape.

► Playback Zoom

During video playback, pause mode, or while viewing still images stored on Memory Stick media, you can zoom in up to 5X closer. These newly cropped images can be stored on the Memory Stick media.

► PIM (Print Image Matching)

Print Image Matching allows the color, brightness and sharpness from the original images to be accurately reproduced in the photo when printing from your PIM compatible home printer.

► STEP-UP FEATURE

DCR-TRV340

ADDITIONAL FEATURES

- ▶ Print Mark
- Digital Program Editing
- Program AE (Auto Exposure) Modes
- Picture Effect Modes
- Digital Picture Effects
- Fader Modes
- Interval/Frame Recording
- Intelligent Accessory Shoe

SPECIFICATIONS

Imaging Device: 1/6", 460K Gross Pixels CCD
Video Actual: 290K Pixels
Still Actual: 290K Pixels
F: 1.6 – 2.7
Focal Distance: 2.4 – 60mm
35mm Conversion: (Camera Mode) 42 – 1050mm
(Memory Mode) 42 – 1050mm
Filter Diameter: 37mm
Optical Zoom: 25X
Digital Zoom: 700X
Focusing: Full Range Auto/Manual (Ring)
Minimum Illumination: 4 Lux (0 Lux with NightShot® Infrared System)
NightShot Infrared System: Super NightShot, Color Slow Shutter
Shutter Speed: Auto, 1/4-1/4000 (AE Mode)
Memory Mode: Yes, 640 x 480
MPEG Movie Mode: Yes, 320 x 240, 160 x 112
Viewfinder: Black and White (113K)
LCD: 2.5" Color, 61K Pixels
Accessory Shoe: Yes (Intelligent)
Portable Printer Capable: Yes
Video Input/Output: Yes/Yes (S-Video/Mini A/V)
Audio Input/Output: Yes/Yes (Stereo, Special)
i.LINK® DV Interface (IEEE1394): Yes (4 Pin)
USB Terminal: Yes
USB Streaming: Yes, 320 x 240 (up to 30 frames/sec.)
Headphone Jack: Yes (Stereo, Mini)
Mic-Input: Yes (Stereo)
White Balance: Auto
Exposure: Yes, Dial (24 Steps)
Power Consumption (VF/LCD/VF+LCD): 3.0W/3.8W/4.0W
Software OS Compatibility: Microsoft® Windows® 98SE 2000, Me, XP; Macintosh® 8.5.1 - 9.1**
Dimensions (WHD): 3 3/8" x 4" x 8 1/8" (85mm x 101mm x 206mm)
Weight: 2 lbs. 2 oz. (985g) w/Battery
Supplied Accessories: AC-L10 Power Adapter/In Camera Charger, NP-FM30 InfoLithium Rechargeable Battery, RMT-814 Wireless Remote Commander® Remote, 2 AA Batteries, A/V Cable, Lens Cap, Shoulder Strap, 8MB Memory Stick Media, CD-ROM with USB Driver (PIXELA ImageMixer Ver. 1.0), USB Cable

worry FREE BATTERY LIFE

Battery* (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FM30	100/80/75 min	80/110 min
NP-FM50	165/130/120 min	130/180 min
NP-FM70	345/270/255 min	270/370 min
NP-QM71	400/315/300 min	315/430 min
NP-FM91	605/475/455 min	475/645 min
NP-QM91	605/475/455 min	475/645 min

*Results may vary



MEMORY MODE



Memory Stick Media

640 x 480	Fine	Standard
8MB	80	120
16MB	160	240
32MB	325	485
64MB	650	980
128MB	1310	1970



MPEG MOVIE MODE

Memory Stick Media	Email Mode (160 x 112)	Presentation Mode (320 x 240)
8MB	5 min 20 sec	1 min 20 sec
16MB	10 min 40 sec	2 min 40 sec
32MB	21 min 20 sec	5 min 20 sec
64MB	42 min 40 sec	10 min 40 sec
128MB	85 min 20 sec	21 min 20 sec

OPTIONAL ACCESSORIES

AC-SC950D AC Quick Charger for Super Quick batteries	VCL-HG0737X High Grade Wide Angle Lens
AC-VQ850D AC/DC Adapter Quick Charger	VCL-ES06A Wide Angle Lens
PC-VM50 Portable AC Charger	VCL-ES20A Telephoto Lens
DCC-L50 Car Battery Adapter Cable	VCL-R2037X High Grade Telephoto Lens
LCS-VA2 Carrying Case	VF-R37K Neutral Density Filter Kit
LCS-VA1 Carrying Case	VF-37PK Polarizing Filter Kit
ACC-KITFM50 Handycam Camcorder Starter Kit	VCT-670RM Remote Control Tripod
VCL-O637H Wide Angle Lens	VCT-570RM Remote Control Tripod
PVP-MSH Portable Video Printer	VCT-R610 Lightweight Tripod
	VCT-TK1 Pocket Tripod

* i.LINK is a trademark of Sony, used only to designate that a product contains an IEEE 1394 connector. All products with an IEEE 1394 connector may not communicate with each other.

** Not compatible with USB Streaming.

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Macintosh is a registered trademark of Apple Computer, Inc.

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Non-metric weights and measures are approximate.

SONY

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16765 West Bernardo Drive
San Diego, CA 92127
www.sony.com/di

DCR-TRV740

Digital Handycam® Camcorder



FEATURES

► 1/4.7" Advanced HAD™ CCD Imager, 1.0 Mega Pixels Gross



1/4.7" Advanced HAD (Hole Accumulation Diode) CCD imager with 690K (effective) pixels provides excellent detail and clarity, with exceptional digital video performance. Realize great looking digital still images utilizing 1000K (effective) pixels. The Mega Pixel technology enhances your digital videos and digital photography performance.

Digital8® Video Recording

Digital8 recording format delivers 3X the color bandwidth of VHS with significantly less video noise providing stunning video performance. Digital8 format records digital audio and video comparable to Mini DV on affordable Hi8™ tapes.

Backwards Compatible

Play back existing 8mm and Hi8 analog recorded tapes.

► Advanced HAD™ CCD Technology

The Advanced Hole Accumulation Diode enhanced CCD design allows for more light to reach the imager which reduces video noise to improve signal-to-noise ratio by up to 6dB (2X better than a standard CCD imager).

► 520 Lines of Horizontal Video Resolution

Enjoy digitally recorded video with 520 lines of horizontal resolution for outstanding video quality comparable to DV and DVD performance.

15X Optical/420X 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 (61K Pixels)

Provides excellent viewing clarity with improved resolution. The 61K pixels LCD rotates up to 270-degrees for multiple viewing angles providing a sharp detailed image for monitoring or playback.

► Super SteadyShot Picture Stabilization System



An advanced version of Sony's SteadyShot system that controls an even higher range of shake and vibration frequencies, to achieve an even higher level of smoothness without degradation of video like some other image stabilization systems.

Digital Still Memory Mode with Memory Stick® Media



Digital Still Memory Mode captures high quality Mega Pixel still images up to 1152x864 resolution directly to Memory Stick® media. Images are stored in a JPEG format providing easy transfer to PCs for email, printing, or sharing with family and friends.

► MPEG Movie EX Mode



Unlike other MPEG1 movies, MPEG Movie EX will allow you to record uninterrupted to the full capacity of the Memory Stick media. For example, the 128MB Memory Stick media will record up to 85 minutes of non-stop MPEG videos.

i.LINK®* DV Interface (IEEE1394)



A high speed bi-directional digital video/audio communication between two devices equipped with a IEEE1394 interface, including camcorders, digital VCRs, and PCs.

Analog-to-Digital Conversion with Pass-Through

Convert and/or record any analog NTSC video source to digital video via the analog inputs. Analog NTSC video can also be passed-through the Digital Handycam camcorder directly into a PC via the i.LINK interface in real time for easy PC editing of your analog footage.

USB Streaming

Stay connected with family and friends by broadcasting live video with audio, via the internet with the USB interface. You can even playback your favorite recorded scene stored on tape. It's like having your own web camera and video conferencing system.

USB Interface

USB terminal provides an easy way to connect Digital Handycam camcorders to computers for fast transfer of digital images and MPEG movies stored on Memory Stick media.

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.

Super NightShot and Color Slow Shutter



With Sony's Super NightShot, capture video in total darkness (0 lux) up to 10 feet away. Super NightShot mode automatically adjusts the shutter speed to increase picture brightness and clarity. Color Slow Shutter mode allows you to record in low light situations with full color detail by slowing down the shutter speed.

► STEP-UP FEATURE

DCR-TRV740

ADDITIONAL FEATURES

Stamina® Power Management System	Print Mark
▶ Progressive Shutter System	Digital Program Editing
▶ 14-Bit DXP A/D Conversion	Program AE (Auto Exposure) Modes
12-Bit/16-Bit PCM	Picture Effect Modes
Digital Stereo	Digital Picture Effects
Photo Mode	Fader Modes
Photo Save	Interval/Frame Recording
Playback Zoom	Intelligent Accessory Shoe
PIM (Print Image Matching)	▶ AE Bracketing

SPECIFICATIONS

Imaging Device: 1/4.7", 1070K Gross Pixels CCD

Video Actual: 690K Pixels

Still Actual: 1000K Pixels

F: 1.6 – 2.4

Focal Distance: 3.6 – 54mm

35mm Conversion: (Camera Mode) 48 – 720mm
(Memory Mode) 40 – 600mm

Filter Diameter: 37mm

Optical Zoom: 15X

Digital Zoom: 420X

Focusing: Full Range Auto/Manual (Ring)

Minimum Illumination: 7 Lux (0 Lux with NightShot® Infrared System)

NightShot Infrared System: Super NightShot, Color Slow Shutter

Shutter Speed: Auto, 1/4-1/4000 (AE Mode)

Memory Mode: Yes, 1152 x 864, 640 x 480

MPEG Movie EX: Yes, 320 x 240, 160 x 112

Viewfinder: Black and White (113K)

LCD: 2.5" Color, 61K Pixels

Accessory Shoe: Yes (Intelligent)

Portable Printer Capable: Yes

Video Input/Output: Yes/Yes (S-Video/Mini A/V)

Audio Input/Output: Yes/Yes (Stereo, Special)

i.LINK® DV Interface (IEEE 1394): Yes (4 Pin)

USB Terminal: Yes

USB Streaming: Yes, 320 x 240 (up to 30 frames/sec.)

Headphone Jack: Yes (Stereo, Mini)

Mic-Input: Yes (Stereo)

White Balance: Auto

Exposure: Yes, Dial (24 Steps)

Power Consumption (VF/LCD/VF+LCD): 3.5W/4.3W/4.5W

Software OS Compatibility: Microsoft® Windows® 98SE, 2000, Me, XP; Macintosh® 8.5.1 - 9.1**

Dimensions (WHD): 3 3/8" x 4" x 8 1/4" (85mm x 101mm x 207mm)

Weight: 2 lbs 2 oz (985g) w/Battery

Supplied Accessories: AC-L10 Power Adapter/In Camera Charger, NP-FM50 InfoLithium Rechargeable Battery, RMT-814 Wireless Remote Commander® Remote, 2 AA Batteries, A/V Cable, Lens Cap, Shoulder Strap, 8MB Memory Stick® Media, CD-ROM with USB Driver (PIXELA ImageMixer Ver. 1.0), USB Cable

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Battery* (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FM30	85/70/65 min	80/105 min
NP-FM50	140/110/105 min	135/170 min
NP-FM70	295/240/225 min	275/355 min
NP-QM71	340/275/265 min	325/415 min
NP-FM91	520/420/400 min	490/625 min
NP-QM91	520/420/400 min	490/625 min

*Results may vary



MEMORY MODE



Memory Stick Media	1152 x 864/640 x 480		
	Super Fine	Fine	Standard
8MB	12/40	25/80	37/120
16MB	25/80	50/160	74/240
32MB	51/160	100/325	150/485
64MB	100/325	205/650	300/980
128MB	205/650	415/1310	600/1970



MPEG MOVIE EX MODE

Memory Stick Media	Email Mode (160 x 112)	Presentation Mode (320 x 240)
8MB	5 min 20 sec	1 min 20 sec
16MB	10 min 40 sec	2 min 40 sec
32MB	21 min 20 sec	5 min 20 sec
64MB	42 min 40 sec	10 min 40 sec
128MB	85 min 20 sec	21 min 20 sec

OPTIONAL ACCESSORIES

AC-SC950D AC Quick Charger for Super Quick batteries	VCL-HG0737X High Grade Wide Angle Lens
AC-VQ850D AC/DC Adapter Quick Charger	VCL-ES06A Wide Angle Lens
PC-VM50 Portable AC Charger	VCL-ES20A Telephoto Lens
DCC-L50 Car Battery Adapter Cable	VCL-R2037X High Grade Telephoto Lens
LCS-VA2 Carrying Case	VF-R37K Neutral Density Filter Kit
LCS-VA1 Carrying Case	VF-37PK Polarizing Filter Kit
ACC-KITFM50 Handycam Camcorder Starter Kit	VCT-670RM Remote Control Tripod
VCL-O637H Wide Angle Lens	VCT-570RM Remote Control Tripod
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** Not compatible with USB Streaming.

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DCR-TRV840

Digital Handycam® Camcorder



FEATURES

1/4.7" Advanced HAD™ CCD Imager, 1.0 Mega Pixels Gross



1/4.7" Advanced HAD (Hole Accumulation Diode) CCD imager with 690K (effective) pixels provides excellent detail and clarity, with exceptional digital video performance. Realize great looking digital still images utilizing 1000K (effective) pixels. The Mega Pixel technology enhances your digital videos and digital photography performance.

Digital8® Video Recording

Digital8 recording format delivers 3X the color bandwidth of VHS with significantly less video noise providing stunning video performance. Digital8 format records digital audio and video comparable to Mini DV on affordable Hi8™ tapes.

Backwards Compatible

Play back existing 8mm and Hi8 analog recorded tapes.

Advanced HAD™ CCD Technology

The Advanced Hole Accumulation Diode enhanced CCD design allows for more light to reach the imager which reduces video noise to improve signal-to-noise ratio by up to 6dB (2X better than a standard CCD imager).

520 Lines of Horizontal Video Resolution

Enjoy digitally recorded video with 520 lines of horizontal resolution for outstanding video quality comparable to DV and DVD performance.

15X Optical/420X 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.

▶ 3.5" SwivelScreen™ LCD Display (123K Pixels)

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

Super SteadyShot Picture Stabilization System



An advanced version of Sony's SteadyShot system that controls an even higher range of shake and vibration frequencies, to achieve an even higher level of smoothness without degradation of video like some other image stabilization systems.

Digital Still Memory Mode with Memory Stick® Media



Digital Still Memory Mode captures high quality Mega Pixel still images up to 1152x864 resolution directly to Memory Stick® media. Images are stored in a JPEG format providing easy transfer to PCs for email, printing, or sharing with family and friends.

MPEG Movie EX Mode



Unlike other MPEG1 movies, MPEG Movie EX will allow you to record uninterrupted to the full capacity of the Memory Stick media. For example, the 128MB Memory Stick media will record up to 85 minutes of non-stop MPEG videos.

i.LINK®* DV Interface (IEEE1394)



A high speed bi-directional digital video/audio communication between two devices equipped with a IEEE1394 interface, including camcorders, digital VCRs, and PCs.

Analog-to-Digital Conversion with Pass-Through

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With Sony's Super NightShot, capture video in total darkness (0 lux) up to 10 feet away. Super NightShot mode automatically adjusts the shutter speed to increase picture brightness and clarity. Color Slow Shutter mode allows you to record in low light situations with full color detail by slowing down the shutter speed.

DCR-TRV840

ADDITIONAL FEATURES

Stamina® Power Management System	Print Mark
Progressive Shutter System	Digital Program Editing
14-Bit DXP A/D Conversion	Program AE (Auto Exposure) Modes
12-Bit/16-Bit PCM Digital Stereo	Picture Effect Modes
Photo Mode	Digital Picture Effects
Photo Save	Fader Modes
Playback Zoom	Interval/Frame Recording
PIM (Print Image Matching)	AE Bracketing

SPECIFICATIONS

Imaging Device: 1/4.7", 1070K Gross Pixels CCD

Video Actual: 690K Pixels

Still Actual: 1000K Pixels

F: 1.6 – 2.4

Focal Distance: 3.6 – 54mm

35mm Conversion: (Camera Mode) 48 – 720mm
(Memory Mode) 40 - 600mm

Filter Diameter: 37mm

Optical Zoom: 15X

Digital Zoom: 420X

Focusing: Full Range Auto/Manual (Ring)

Minimum Illumination: 7 Lux (0 Lux with NightShot® Infrared System)

NightShot Infrared System: Super NightShot, Color Slow Shutter

Shutter Speed: Auto, 1/4-1/4000 (AE Mode)

Memory Mode: Yes, 1152 x 864, 640 x 480

MPEG Movie EX: Yes, 320 x 240, 160 x 112

Viewfinder: Black and White (113K)

LCD: 3.5" Color, 123K Pixels

Accessory Shoe: Yes (Intelligent)

Portable Printer Capable: Yes

Video Input/Output: Yes/Yes (S-Video/Mini A/V)

Audio Input/Output: Yes/Yes (Stereo, Special)

i.LINK® DV Interface (IEEE1394): Yes (4 Pin)

USB Terminal: Yes

USB Streaming: Yes, 320 x 240 (up to 30 frames/sec.)

Headphone Jack: Yes (Stereo, Mini)

Mic-Input: Yes (Stereo)

White Balance: Auto

Exposure: Yes, Dial (24 Steps)

Power Consumption (VF/LCD/VF+LCD): 3.5W/4.5W/4.7W

Software OS Compatibility: Microsoft® Windows® 98SE, 2000, Me, XP; Macintosh® 8.5.1 - 9.1**

Dimensions (WHD): 3 3/8" x 4" x 8 1/4" (85mm x 101mm x 207mm)

Weight: 2 lbs 3 oz (1015g) w/Battery

Supplied Accessories: AC-L10 Power Adapter/In Camera Charger, NP-FM50 InfoLithium Rechargeable Battery, RMT-814 Wireless Remote Commander® Remote, 2 AA Batteries, A/V Cable, Lens Cap, Shoulder Strap, 8MB Memory Stick Media, USB Cable, CD-ROM with USB Driver (PIXELA ImageMixer Ver. 1.0)

worry FREE BATTERY LIFE

Battery* (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FM30	85/65/60 min	75/105 min
NP-FM50	140/105/100 min	125/170 min
NP-FM70	295/225/215 min	265/355 min
NP-QM71	340/265/250 min	305/415 min
NP-FM91	520/400/380 min	465/625 min
NP-QM91	520/400/380 min	465/625 min

*Results may vary



MEMORY MODE



Memory Stick Media	1152 x 864/640 x 480		
	Super Fine	Fine	Standard
8MB	12/40	25/80	37/120
16MB	25/80	50/160	74/240
32MB	51/160	100/325	150/485
64MB	100/325	205/650	300/980
128MB	205/650	415/1310	600/1970



MPEG MOVIE EX MODE

Memory Stick Media	Email Mode (160 x 112)	Presentation Mode (320 x 240)
8MB	5 min 20 sec	1 min 20 sec
16MB	10 min 40 sec	2 min 40 sec
32MB	21 min 20 sec	5 min 20 sec
64MB	42 min 40 sec	10 min 40 sec
128MB	85 min 20 sec	21 min 20 sec

OPTIONAL ACCESSORIES

AC-SC950D AC Quick Charger for Super Quick Batteries	VCL-HG0737X High Grade Wide Angle Lens
AC-VQ850D AC/DC Adapter Quick Charger	VCL-ES06A Wide Angle Lens
PC-VM50 Portable AC Charger	VCL-ES20A Telephoto Lens
DCC-L50 Car Battery Adapter Cable	VCL-R2037X High Grade Telephoto Lens
LCS-VA2 Carrying Case	VF-R37K Neutral Density Filter Kit
LCS-VA1 Carrying Case	VF-37PK Polarizing Filter Kit
ACC-KITFM50 Handycam Camcorder Starter Kit	VCT-670RM Remote Control Tripod
VCL-O637H Wide Angle Lens	VCT-570RM Remote Control Tripod
PVP-MSH Portable Video Printer	VCT-R610 Lightweight Tripod
	VCT-TK1 Pocket Tripod

SONY

Sony Electronics Inc.
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San Diego, CA 92127
www.sony.com/di

* i.LINK is a trademark of Sony, used only to designate that a product contains an IEEE 1394 connector. All products with an IEEE 1394 connector may not communicate with each other.

** Not compatible with USB Streaming.

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Non-metric weights and measures are approximate.

GV-D200/D800

Digital8® Video Walkman™ VCR



GV-D200



GV-D800

FEATURES

Digital8® Recording and Playback



Records outstanding digital picture and sound on affordable Hi8™ and 8mm tapes. Offers up to 520 lines of resolution with three times the color bandwidth of VHS and significantly lower video noise.

Hi8™/8mm Playback



Video Walkman™ VCRs can playback previously recorded material from Hi8™ or 8mm videotapes in either SP or LP modes.

Analog-to-Digital Conversion with Pass-Through

Convert your analog tapes to digital via real-time analog to digital conversion using the i.LINK® (IEEE1394) connection. It allows you to pass-through an analog signal to a PC for editing, without first recording it digitally.

20-Segment Assemble Edit

Allows the user to connect the Video Walkman™ VCR to other camcorders or VCRs to edit and create entertaining home videos. With this feature you can select up to twenty different scenes and assemble them together the way you want.

12/16-Bit PCM Digital Stereo Audio

16-bit recording capability offers the same, outstanding sound quality as Compact Disc. 12-bit recording enables you to transfer the recorded signal via i.LINK® interface/connector to a compatible DV device so that stereo music or narration can be added without disturbing the original audio tracks.

i.LINK® (IEEE 1394) DV Input/Output



Provides bi-directional digital communication that carries digital audio, digital video and control signals to other i.LINK® equipped video devices and a growing range of compatible PCs for dubbing and non-linear editing.

Super LaserLink Wireless Connection



Allows the user to transmit audio and video, via infra-red, from the GV-D200/800 to the optional IFT-R20 LaserLink® receiver, at a distance of up to 26 feet. The Super LaserLink system eliminates the need for running long video cables or using clumsy adapters.

4" Color Active Matrix LCD Screen and Built-in Stereo Speakers (GV-D800 only)

Provides on the spot high quality viewing of your videos.

AC Powered with Supplied Adapter/DC Powered or Optional InfoLithium® Battery

Supplied AC-L10 adapter allows you to plug in your Video Walkman™ VCR into any standard AC outlet. By adding an optional InfoLithium® battery (NP-F550, NP-F750 or NP-F960) you can enjoy using your Video Walkman™ VCR in portable applications such as playback and editing.

Crystal Clear Still/Slow Motion and Frame-by-Frame Advance

Digital video recording allows crystal clear still/ slow motion and frame-by-frame advance capabilities.

Playback PAL Recorded Digital8® Tapes

Provides the ability to playback PAL system recorded Digital8® cassettes on the LCD screen (GV-D800 only).

2X Playback and 2X Playback Zoom

Allows for 2X playback in forward and reverse. 2X Playback zoom allows you to zoom into a selected area of the video during playback of a Digital8® tape.

Digital Noise Reduction

Reduces chrominance (color) noise up to 20% when recording.

Time Base Correction (TBC)

Corrects timing errors, which eliminate the jitters commonly found in home video.

GV-D200/D800

GV-D200

All the great features of the GV-D800 without the LCD screen and stereo speakers. The GV-D200 makes a great side-by-side editing companion to the GV-D800 or most camcorders with video inputs and remote control capabilities.



GV-D200

POWER CONSUMPTION

D8 Rec./LCD on	5.4W	D8 Play/LCD off	3.0W
D8 Rec./LCD off	3.5W	Hi8 Play/LCD on	5.6W
D8 Play/LCD on	4.9W	Hi8 Play/LCD off	3.7W

SPECIFICATIONS

Recording Format: Digital8® only

Playback Formats: Digital8®, Hi8™ & 8mm

Video Signal: NTSC Standard

Recording and Playback Speeds: SP/LP

GV-D800 Playback Time: 13 Hours Max, LCD and Laserlink® off
(Using optional NP-F960
InfoLithium® battery)

GV-D200 Playback Time: 13 Hours Max, LaserLink® off (Using
optional NP-F960 InfoLithium® battery)

Assemble Edit: 20 Segments

Audio Recording System: 12/16-bit PCM digital stereo recording

Built-in Stereo Speakers: Yes (GV-D800 only)

Display: 4-inch 123K Pixel Active Matrix LCD Display (GV-D800)

Video Input/Output: One Composite, One S-Video

Audio Input/Output: One set of Composite (Left & Right)

Digital I/O: i.LINK® (IEEE1394) DV Interface

Control L: Stereo Mini-Mini Jack

Headphone Jack: Stereo Mini Jack

RF Connection: Yes

Dimensions (WHD): GV-D200: 5 7/8" x 2" x 5 3/8"
GV-D800: 5 7/8" x 2 5/8" x 5 3/8"

Weight: GV-D200: 1 lb 7 oz

GV-D800: 2 lbs 1oz

Supplied Accessories: AC Adapter (AC-L10), Standard phono
AV Cable, Special AV-Mini to Phono Cable

OPTIONAL ACCESSORIES

TGV-100 TV Tuner (for GV-D800 only)

NP-F550/750/960 Battery

IFTR-20 Super LaserLink® Receiver

DSRM-E1 Editor

	GV-D200	GV-D800
Recording Format	Digital8	Digital8
Playback Format	8mm, Hi8, Digital8	8mm, Hi8, Digital8
PAL Playback	No	Yes
A/D Conversion	Yes	Yes
Digital Program Editing	Yes	Yes
Super LaserLink®	Yes	Yes
Color LCD	No	4" Color Active Matrix
Built-In Speakers	No	Yes
Playback Zoom	Yes	Yes
i.LINK DV Input/Output	Yes	Yes
S-Video Input/Output	Yes	Yes
Composite Input/Output	Yes	Yes
TGV-100 Compatible*	No	Yes
AC Power	Yes	Yes
DC Power*	NP-F330/F550, NP-F750/F960	NP-F330/F550, NP-F750/F960
Weight	1 lb 7 oz	2 lbs 1 oz
*Optional Accessories		

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Digital 8

	DCR-TRV140	DCR-TRV240	DCR-TRV340	DCR-TRV740	DCR-TRV840
SPPG	\$499	\$599	\$699	\$799	\$899
A/V Performance					
Video Recording System	Digital8	Digital8	Digital8	Digital8	Digital8
Video Recording/Playback Speed	SP/LP Modes	SP/LP Modes	SP/LP Modes	SP/LP Modes	SP/LP Modes
Video Playback System	Digital8	Digital8, Hi8, 8mm	Digital8, Hi8, 8mm	Digital8, Hi8, 8mm	Digital8, Hi8, 8mm
Audio Recording System	PCM Digital	PCM Digital	PCM Digital	PCM Digital	PCM Digital
Audio Playback System	PCM Digital	PCM Digital, HiFi Stereo	PCM Digital, HiFi Stereo	PCM Digital, HiFi Stereo	PCM Digital, HiFi Stereo
CCD Imaging Device (gross pixels)	1/4" (460,000)	1/6" (460K)	1/6" (460K)	1/4.7" (1,070K)	1/4.7" (1,070K)
Filter Diameter	37mm	37mm	37mm	37mm	37mm
Memory Mode (Digital Still Camera Function)	N/A	N/A	Yes	Yes	Yes
Memory Stick Digital Media (Supplied)	N/A	N/A	8MB	8MB	8MB
Digital Noise Reduction/TBC	N/A	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
NightShot Infrared System	Super & Color	Super & Color	Super & Color	Super & Color	Super & Color
Optimum Recording Control (Menu)	Yes	Yes	Yes	Yes	Yes
Optical Zoom (variable speed)	20X	25X	25X	15X	15X
Digital Zoom	560X	700X	700X	420X	420X
SteadyShot Picture Stabilization	Yes	Yes	Yes	Super	Super
Min. Illumination (w/o NightShot system)	1 lux	4 lux	4 lux	7 lux	7 lux
Min. Illumination (w/NightShot system)	0 lux	0 lux	0 lux	0 lux	0 lux
Shutter Speed	1/4-1/4000 (AE Mode)	1/4-1/4000 (AE Mode)	1/4-1/400 (AE Mode)	1/4-1/4000 (AE Mode)	1/4-1/4000 (AE Mode)
Power Management					
Stamina Battery Life	Up To 10.5 Hours	Up To 10 hours	Up To 10 Hours	Up to 8 Hours	Up to 8 Hours
AccuPower Battery Meter	Yes	Yes	Yes	Yes	Yes
Convenience					
SwivelScreen LCD Monitor (diagonal)	2.5"	2.5"	2.5"	2.5"	3.5"
Viewfinder	B/W	B/W	B/W	B/W	B/W
Portable Color Printer (PVP-MSH)	N/A	N/A	Optional	Optional	Optional
i.LINK DV Interface (IEEE1394)	Yes	Yes	Yes	Yes	Yes
20-Segment Program Edit	Yes	Yes	Yes	Yes	Yes
Control-L (LANC) Edit interface	N/A	Yes	Yes	Yes	Yes
S-Video Input/Output	No/Yes (mini)	Yes/Yes (mini)	Yes/Yes (mini)	Yes/Yes (mini)	Yes/Yes (mini)
A/D Conversion w/Pass Through	N/A	Yes	Yes	Yes	Yes
Built-In Video Light	Yes	N/A	N/A	N/A	N/A
Built-In Speaker	Yes	Yes	Yes	Yes	Yes
USB Interface	Yes	Yes	Yes	Yes	Yes
Edit Search	No	Yes	Yes	Yes	Yes
World Time Clock	Yes	Yes	Yes	Yes	Yes
Intelligent Accessory Shoe	N/A	Yes	Yes	Yes	Yes
Remote control	RMT-814	RMT-814	RMT-814	RMT-814	RMT-814
Dimensions (W x H x D)	3 3/8 x 4 1/8 x 7 7/8" 90mm x 102mm x 197mm	3 3/8 x 4 x 8 1/8" 85mm x 101mm x 206mm	3 3/8 x 4 x 8 1/8" 85mm x 101mm x 206mm	3 3/8 x 4 x 8 1/8" 85mm x 101mm x 207mm	3 3/8 x 4 x 8 1/4" 85mm x 101mm x 207mm
Weight (w/o tape and battery)	1 lb 14 oz (850g)	1 lb 15 oz (890g)	1 lb 15 oz (900g)	1 lb 15 oz (900g)	2 lb 0 oz (930g)
Special Features					
Memory Mix	N/A	N/A	Yes	Yes	Yes
Playback Zoom	2x	2x	5x	5x	5x
Picture Effects	8 Modes	8 Modes	8 Modes	8 Modes	8 Modes
Digital Picture Effects	6 Modes	6 Modes	6 Modes	6 Modes	6 Modes
Easy Dubbing	N/A	N/A	N/A	N/A	N/A
USB Streaming	Yes	Yes	Yes	Yes	Yes
Print Image Matching	N/A	N/A	Yes	Yes	Yes
Audio/Video Digital Fader	7 Modes	7 Modes	7 Modes	7 Modes	7 Modes
Preset Titler	Yes	Yes	Yes	Yes	Yes
16:9 Recording	Yes	Yes	Yes	Yes	Yes
Digital Photo Mode	Yes (Tape)	Yes, Tape	Yes (Tape/MS)	Yes (Tape/MS)	Yes (Tape/MS)
MPEG Movie Mode	N/A	N/A	Yes	Yes (EX)	Yes (EX)
Manual Controls					
Program Auto Exposure	Yes	Yes	Yes	Yes	Yes
Manual Focus	Yes (Dial)	Yes (Ring)	Yes (Ring)	Yes (Ring)	Yes (Ring)
Manual Exposure	Yes (Dial)	Yes (Dial)	Yes (Dial)	Yes (Dial)	Yes (Dial)



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