

Mini DV Handycam® Camcorders: *The definition of digital.*

The Foundation of the Format

Digital video was once the exclusive province of broadcasters and video professionals. The Mini DV format changes all that, using advanced compression, videotape and recording technologies to make digital performance available to everyone.

Studio Quality Digital Pictures

- **Better than broadcast resolution.** A maximum resolution of 530 horizontal lines.
- **Three times the color information of VHS.** Separate R-Y, B-Y color “components” provide far brighter, richer, more vibrant color. You’ll see digital quality that analog systems just can’t record.
- **Minimum generation loss.** With digital copies, you won’t experience the annoying quality loss when you edit videos and share the results with friends and family.

CD Quality Digital Sound

- **16-bit two-channel sound.** DV offers the same 16-bit PCM stereo sound quality as the Compact Disc. So customers enjoy a breathtaking 96-dB dynamic range and full 20-to-20,000-Hz frequency response.
- **12-bit, four-channel sound.** At your option, you can record in 12-bit mode with two sets of stereo tracks—one for the original sound and another for adding music or narration.

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!

Cassette Memory

Sony Mini DV Handycam® camcorders take advantage of the 4K bit Memory Chip available in selected DV cassettes. You can perform Tape Titling, Index Titling and Title Search to speed up or for quicker access to recorded scenes.

Analog Inputs with Digital Conversion

Sony Mini DV Handycam® camcorders also offer analog inputs. So you can archive your older analog recordings on compact, durable Mini DV cassettes. And of course, this footage then is available for digital editing on a PC through i.LINK® connectivity!

Prosumer Performance

Sony has endowed the Mini DV line with “prosumer” features, enhancements that blur the distinction between amateur and professional.

- **3-CCD image block.** Almost every consumer camcorder has a single CCD image sensor. But almost every broadcast camera has three. Sony’s Mini DV 3-CCD camcorders render beautiful color, dramatically reducing smear and bleed.
- **Mega Pixel image sensors.** Selected DV camcorders can capture still images at almost two times the standard VGA resolution. Both still images and video benefit from increased resolution.
- **Carl Zeiss® Vario Sonnar T* lenses.** Because a picture can’t be any better than the lens that helps capture it, Sony incorporates professional-grade lenses from the legendary Carl Zeiss. The T* coating minimizes lens “flare” in sunlight, preserving maximum contrast and resolution.

Enhancing the DV Experience

The range of Sony DV functions and features continues to grow.

- **Still image capture.** Every Sony Mini DV Handycam® camcorder offers Digital Still Memory Mode, which saves still images onto the supplied Memory Stick® media.
- **MPEG movie mode.** MPEG movies can be stored on Memory Stick® media and distributed in emails, on websites or in PowerPoint® presentations.
- **Bluetooth™ wireless networking.** Selected Sony Handycam® camcorders can also transfer information from Memory Stick® media to the Internet. The camcorders can communicate with the BTA-NW1 Bluetooth™ adapter (select models) or with other compatible Bluetooth™ devices such as cell phones. You can even use the camcorder to send and receive emails or browse the web—right on the LCD screen!

Mini DV

DCR-TRV18

Digital Handycam® Camcorder



FEATURES

► Mini DV Recording

Mini DV digital recording format delivers 3X color bandwidth of VHS and lower signal to noise ratio compared to analog formats and provides stunning video performance.

1/4" Advanced HAD™ CCD Imager, 680K Pixels Gross

1/4" CCD with 340K (effective) pixels provides stunning detail and clarity, with exceptional video and still image performance. Realize good looking digital still images utilizing 340K (effective) pixels.

Advanced HAD CCD Technology

The Advanced HAD (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). Particularly effective when shooting in dark situations.

Up to 500 Lines of Horizontal Resolution

Sony's Advanced HAD CCD technology, combined with Carl Zeiss® optics, provide outstanding video performance with up to 500 horizontal lines of resolution.

► Professional Quality Carl Zeiss® Vario-Sonnar Lens

Carl Zeiss lens have an advanced optical multi-layer coating offering less glare and flare with increased contrast. This results in vivid image brilliance, true-to-life color saturation, and perfect renditions of subtle tones.

10X Optical/120X Precision Digital Zoom

The Carl Zeiss Optical Zoom brings the action close up from far away. In addition, precision digital zoom interpolation technology means that extreme digital zooming is clearer, with less distortion than previous types of digital zoom.

2.5" SwivelScreen™ LCD Display (123K Pixels)

The 2.5" SwivelScreen LCD display provides excellent viewing clarity with improved resolution. The 123K pixel LCD rotates up to 270-degrees for multiple viewing angles providing sharp detailed images 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 still images at 640 x 480 resolution, directly onto Memory Stick media. Images are stored in a JPEG format providing easy transfer to PCs for emailing, 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 (IEEE 1394)



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 camcorders 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 for fast transfer of digital images and MPEG movies stored on Memory Stick media to the PC.

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 0 Lux Recording 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-TRV18

ADDITIONAL FEATURES

Stamina® Power Management System	Print Mark
Progressive Shutter System	Digital Program Editing
Photo Mode	Picture Effect Modes
Photo Save	Interval/Frame Recording
Playback Zoom	Index Titling
PIM (Print Image Matching)	Intelligent Accessory Shoe
	Burst Mode

SPECIFICATIONS

Imaging Device: 1/4", 680K Gross Pixels Advanced HAD CCD

Video Actual: 340K

Still Actual: 340K

F: 1.7-2.2

Focal Distance: 3.3-33mm

35mm Conversion: 42-420mm (Camera Mode)
42-420mm (Memory Mode)

Filter Diameter: 30mm

Optical Zoom: 10X

Digital Zoom: 120X

Focusing: Full Range Auto/Manual

Minimum Illumination: 5 Lux (0 Lux with
NightShot® Infrared System)

NightShot Infrared System: Super NightShot, Color Slow Shutter

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

Memory Mode: Yes, 640 x 480

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

Viewfinder: Color (113K)

LCD: 2.5" Color (123K)

Accessory Shoe: Yes (Intelligent)

Portable Printer Capable: Yes

Video Input/Output: Yes/Yes (Special and S-Video)

Audio Input/Output: Yes/Yes (Stereo)

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 (Mini, Stereo)

Mic-Input: Yes (Stereo)

White Balance: Auto, Outdoor, Indoor, Hold

Exposure: Yes, Dial (24 Steps)

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

Power Consumption (VF/LCD/VF+LCD): 2.5W/3.3W/3.5W

Dimensions (WHD): 3" x 3 3/4" x 6 1/2" (76mm x 93mm x 162mm)

Weight: 1 lb 8 oz (705g) w/Battery

Supplied Accessories: AC-L10 Power Adapter/In Camera
Charger, NP-FM30 InfoLithium Rechargeable Battery,
RMT-814 Wireless Remote Commander®, 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	125/90/85 min	100/135 min
NP-FM50	200/150/140 min	160/220 min
NP-FM70	415/310/295 min	335/450 min
NP-QM71	485/365/340 min	390/530 min
NP-FM91	725/550/520 min	585/785 min
NP-QM91	725/550/520 min	585/785 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 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-R2030S Telephoto Lens
AC-VQ850D AC/DC Adapter Quick Charger	VF-30PK Polarizing Filter Kits
PC-VM50 Portable AC Charger	ECM-HS1 Stereo Zoom Microphone
DCC-L50 Car Battery Adapter Cable	HVL-S3D 3-Watt Video Light
LCS-VA2 Carrying Case	HVL-IRH2 Infrared Light
LCS-VA1 Carrying Case	HVL-FDH3 3-Watt Flash/Video Light
ACC-KITFM50 Handycam	HVL-FH1100 High Quality Hinged Flash
Camcorder Starter Kit	VCT-870RM Remote Control Tripod
VCL-0630S Wide Angle Lens	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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All other trademarks are property of their respective owners. Features and specifications subject to change without notice. Non-metric weights and measures are approximate.

SONY

Sony Electronics Inc.
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DCR-TRV25

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.

Mini DV Recording

Mini DV digital recording format delivers 3X color bandwidth of VHS and lower signal to noise ratio compared to analog formats and provides stunning video performance.

Advanced HAD™ CCD Technology

The Advanced HAD (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). Particularly effective when shooting in dark situations.

► 520 Lines of Horizontal Resolution

Sony's Advanced HAD™ CCD technology, combined with Carl Zeiss® optics, provide outstanding video performance with 520 horizontal lines of resolution.

Professional Quality Carl Zeiss® Vario-Sonnar Lens

Carl Zeiss lens have an advanced optical multi-layer coating offering less glare and flare with increased contrast. This results in vivid image brilliance, true-to-life color saturation, and perfect renditions of subtle tones.

10X Optical/120X Precision Digital Zoom

The Carl Zeiss® Optical Zoom brings the action close up from far away. In addition, precision digital zoom interpolation technology means that extreme digital zooming is clearer, with less distortion than previous types of digital zoom.

2.5" SwivelScreen™ LCD Display (123K Pixels)

The 2.5" SwivelScreen LCD display provides excellent viewing clarity with improved resolution. The 123K pixel LCD rotates up to 270-degrees for multiple viewing angles providing sharp detailed images 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 1152 x 864 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 (IEEE 1394)



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 camcorders 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 for fast transfer of digital images and MPEG movies stored on Memory Stick media to the PC.

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 0 Lux Recording 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-TRV25

ADDITIONAL FEATURES

Stamina® Power Management System	Print Mark
Progressive Shutter System	Digital Program Editing
➤ 14 Bit DXP A/D Conversion	Picture Effect Modes
Photo Mode	Interval/Frame Recording
Photo Save	Index Titling
Playback Zoom	Intelligent Accessory Shoe
PIM (Print Image Matching)	AE Bracketing
	Burst Mode

SPECIFICATIONS

Imaging Device: 1/4.7" 1,070K Gross Pixels, Advanced HAD™ CCD

Video Actual: 690K

Still Actual: 1,000K

F: 1.8-2

Focal Distance: 3.7-37mm

35mm Conversion: 50-500mm (Camera Mode)
42-420mm (Memory Mode)

Filter Diameter: 30mm

Optical Zoom: 10X

Digital Zoom: 120X

Focusing: Full Range Auto/Manual

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

NightShot Infrared System: Super NightShot, Color Slow Shutter

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

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

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

Viewfinder: Color (113K)

LCD: 2.5" Color (123K)

Accessory Shoe: Yes (Intelligent)

Portable Printer Capable: Yes

Video Input/Output: Yes/Yes (Special and S-Video)

Audio Input/Output: Yes/Yes (Stereo)

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 (Mini, Stereo)

Mic-Input: Yes (Stereo)

White Balance: Auto, Outdoor, Indoor, Hold

Exposure: Yes/Dial (24 Step)

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

Power Consumption (VF/LCD/VF+LCD): 3.4W/4.2W/4.5W

Dimensions (WHD): 3" x 3 3/4" x 6 1/2" (76mm x 93mm x 162mm)

Weight: 1 lb 9 oz (725g) w/Battery

Supplied Accessories: AC-L10 Power Adapter/In Camera Charger, NP-FM50 InfoLithium Rechargeable Battery, RMT-814 Wireless Remote Commander®, 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	90/70/65 min	90/125 min
NP-FM50	145/115/105 min	150/200 min
NP-FM70	305/245/225 min	310/415 min
NP-QM71	355/285/265 min	365/485 min
NP-FM91	535/430/400 min	550/725 min
NP-QM91	535/430/400 min	550/725 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
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OPTIONAL ACCESSORIES

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SONY

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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-TRV27

Digital Handycam® Camcorder



FEATURES

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



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▶ STEP-UP FEATURE

ADDITIONAL FEATURES

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14 Bit DXP A/D Conversion	Picture Effect Modes
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Still Actual: 1,000K

F: 1.8-2

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42-420mm (Memory Mode)

Filter Diameter: 30mm

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Focusing: Full Range Auto/Manual

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

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

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

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

Viewfinder: Color (113K)

LCD: 3.5" Color (123K)

Accessory Shoe: Yes (Intelligent)

Portable Printer Capable: Yes

Video Input/Output: Yes/Yes (Special and S-Video)

Audio Input/Output: Yes/Yes (Stereo)

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

USB Terminal: Yes

USB Streaming: Yes

Headphone Jack: Yes (Mini, Stereo)

Mic-Input: Yes (Stereo)

White Balance: Auto, Outdoor, Indoor, Hold

Exposure: Yes/Dial (24 Step)

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

Power Consumption (VF/LCD/VF+LCD): 3.4W/4.6W/4.9W

Dimensions (WHD): 3" x 3 3/4" x 6 1/2" (76mm x 93mm x 162mm)

Weight: 1 lb 10 oz (745g) w/Battery

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worry FREE

BATTERY LIFE

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NP-FM50	145/105/95 min	135/200 min
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NP-QM71	355/255/240 min	325/485 min
NP-FM91	535/390/365 min	490/725 min
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MEMORY MODE



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32MB	51/160	100/325	150/485
64MB	100/325	205/650	300/980
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PC-VM50 Portable AC Charger	ECM-HS1 Stereo Zoom Microphone
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ACC-KITFM50 Handycam Camcorder Starter Kit	HVL-FH1100 High Quality Hinged Flash
VCL-0630S Wide Angle Lens	VCT-870RM Remote Control Tripod
	VCT-R610 Lightweight Tripod
	VCT-TK1 Pocket Tripod

SONY

Sony Electronics Inc.
16765 West Bernardo Drive
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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DCR-PC101

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.

Mini DV Recording

Mini DV digital recording format delivers 3X color bandwidth of VHS and lower signal to noise ratio compared to analog formats and provides stunning video performance.

Advanced HAD™ CCD Technology

The Advanced HAD (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). Particularly effective when shooting in dark situations.

520 Lines of Horizontal Resolution

Sony's Advanced HAD™ CCD technology, combined with Carl Zeiss® optics, provide outstanding video performance with 520 horizontal lines of resolution.

Professional Quality Carl Zeiss® Vario-Sonnar Lens

Carl Zeiss lens have an advanced optical multi-layer coating offering less glare and flare with increased contrast. This results in vivid image brilliance, true-to-life color saturation, and perfect renditions of subtle tones.

10X Optical/120X Precision Digital Zoom

The Carl Zeiss® Optical Zoom brings the action close up from far away. In addition, precision digital zoom interpolation technology means that extreme digital zooming is clearer, with less distortion than previous types of digital zoom.

2.5" SwivelScreen™ LCD Display (123K Pixels)

The 2.5" SwivelScreen LCD display provides excellent viewing clarity with improved resolution. The 123K pixel LCD rotates up to 270-degrees for multiple viewing angles providing sharp detailed images for monitoring or playback.

► Touch Panel LCD

"On-Screen" touch panel system that allows you to navigate through the camera's menu system at the touch of the LCD screen.

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 1152 x 864 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 (IEEE 1394)



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 camcorders 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 for fast transfer of digital images and MPEG movies stored on Memory Stick media to the PC.

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 0 Lux Recording 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

ADDITIONAL FEATURES

Stamina® Power Management System	Print Mark
Progressive Shutter System	Digital Program Editing
14 Bit DXP A/D Conversion	Picture Effect Modes
Photo Mode	Interval/Frame Recording
Photo Save	Index Titling
Playback Zoom	Intelligent Accessory Shoe
PIM (Print Image Matching)	AE Bracketing
	Burst Mode

SPECIFICATIONS

Imaging Device: 1/4.7" 1,070K Gross Pixels, Advanced HAD™ CCD

Video Actual: 690K

Still Actual: 1,000K

F: 1.8-2

Focal Distance: 3.7-37mm

35mm Conversion: 50-500mm (Camera Mode)
42-420mm (Memory Mode)

Filter Diameter: 30mm

Optical Zoom: 10X

Digital Zoom: 120X

Focusing: Full Range Auto/Manual/Spot (Touch Panel)

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

NightShot Infrared System: Super NightShot, Color Slow Shutter

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

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

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

Viewfinder: Color (180K)

LCD: 2.5" Color (211K)

Accessory Shoe: Yes (Intelligent)

Portable Printer Capable: Yes

Video Input/Output: Yes/Yes (Special and S-Video)

Audio Input/Output: Yes/Yes (Stereo)

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 (Mini, Stereo)

Mic-Input: Yes (Stereo)

White Balance: Auto, Outdoor, Indoor, Hold

Exposure: Yes/Touch Panel (24 Step)

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

Power Consumption (VF/LCD/VF+LCD): 3.3W/4.0W/4.3W

Dimensions (WHD): 2 1/4" x 4 1/4" x 4" (55mm x 105mm x 99mm)

Weight: 1 lb 4 oz (565g) w/Battery

Supplied Accessories: AC-L10 Power Adapter/In Camera Charger, NP-FM50 InfoLithium Rechargeable Battery, RMT-814 Wireless Remote Commander®, 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), LCD Cleaning Cloth

worry FREE BATTERY LIFE

Battery* (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FM30	90/75/70 min	90/125 min
NP-FM50	150/120/110 min	150/200 min
NP-FM70	310/255/240 min	310/415 min
NP-QM71	365/300/275 min	365/485 min
NP-FM91	550/455/420 min	550/725 min
NP-QM91	550/455/420 min	550/725 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-R2030S Telephoto Lens
AC-VQ850D AC/DC Adapter Quick Charger	VF-30PK Polarizing Filter Kits
BC-VM50 Portable AC Charger	ECM-HS1 Stereo Zoom Microphone
DCC-L50 Car Battery Adapter Cable	HVL-S3D 3-Watt Video Light
LCS-VA2 Carrying Case	HVL-IRH2 Infrared Light
LCS-VA1 Carrying Case	HVL-FDH3 3-Watt Flash/Video Light
ACC-KITFM50 Handycam Camcorder Starter Kit	HVL-FH1100 High Quality Hinged Flash
VCL-0630S Wide Angle Lens	VCT-870RM Remote Control Tripod
	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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SONY

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www.sony.com/di

DCR-TRV50

Digital Handycam® Camcorder



FEATURES

► 1/4" Advanced HAD™ CCD Imager, 1.5 Mega Pixels Gross



1/4" Advanced HAD (Hole Accumulation Diode) CCD imager with 970K (effective) pixels provides excellent detail and clarity, with exceptional digital video performance. Realize great looking digital still images utilizing 1390K (effective) pixels. The Mega Pixel technology enhances your digital videos and digital photography performance.

Mini DV Recording

Mini DV digital recording format delivers 3X color bandwidth of VHS and lower signal to noise ratio compared to analog formats and provides stunning video performance.

► Network Capability with Bluetooth™ Technology



Connect the camera, wirelessly, via Bluetooth™ technology, to the Internet. This allows wireless transfer of still images and MPEG1 movies, captured on Memory Stick® media, via the optional modem adapter (BTA-NW1). Images and MPEG movies can be emailed to family and friend, or shared via Sony's ImageStation™ Service on the World Wide Web. You can even browse the Internet wirelessly.

Advanced HAD™ CCD Technology

The Advanced HAD (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). Particularly effective when shooting in dark situations.

► 530 Lines of Horizontal Resolution

Sony's advanced HAD™ Mega Pixel CCD technology, combined with Carl Zeiss® optics provide outstanding video performance with up to 530 horizontal lines of resolution.

Professional Quality Carl Zeiss® Vario-Sonnar Lens

Carl Zeiss lens have an advanced optical multi-layer coating offering less glare and flare with increased contrast. This results in vivid image brilliance, true-to-life color saturation, and perfect renditions of subtle tones.

10X Optical/120X Precision Digital Zoom

The Carl Zeiss® Optical Zoom brings the action close up from far away. In addition, precision digital zoom interpolation technology means that extreme digital zooming is clearer, with less distortion than previous types of digital zoom.

► 3.5" SwivelScreen™ LCD Display (246K Pixels)

The 3.5" SwivelScreen™ LCD display provides excellent viewing clarity with improved resolution. The 246K pixel LCD display makes images sharp and detailed during playback or when monitoring recording.

► Touch Panel LCD with Stylus

The "On Screen" touch panel system allows you to navigate through the camera's menu system at the touch of the LCD screen using the supplied stylus.

Precision Color Viewfinder (180K Pixels)

Increased pixel count provides more detail and clarity of video subjects.

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 1360 x 1020 resolution directly onto Memory Stick media for easy transfer to PC's for email, printing, or sharing with other compatible Memory Stick devices.

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 (IEEE 1394)



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 camcorders 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.

► STEP-UP FEATURE

DCR-TRV50

ADDITIONAL FEATURES

USB Interface	Photo Save
InfoLithium® Battery with AccuPower™ Meter System	Playback Zoom
Super NightShot and Color Slow Shutter	PIM (Print Image Matching)
Stamina® Power Management System	Print Mark
Progressive Shutter System	Digital Program Editing
14 Bit DXP A/D Conversion	Picture Effect Modes
Hologram AF Low Light Laser Assist Focus System	Interval/Frame Recording
Photo Mode	Index Titling
	Intelligent Accessory Shoe
	AE Bracketing
	Burst Mode

SPECIFICATIONS

Imaging Device: 1/4" 1,550K Gross Pixels, Advanced HAD™ CCD

Video Actual: 970K

Still Actual: 1,390K

F: 1.8-2.2

Focal Distance: 4.2-42mm

35mm Conversion: 48-480mm (Camera Mode)
40-400mm (Memory Mode)

Filter Diameter: 37mm

Optical Zoom: 10X

Digital Zoom: 120X

Focusing: Full Range Auto/Manual/Spot (Touch Panel)

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

NightShot Infrared System: Super NightShot, Color Slow Shutter

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

Memory Mode: Yes, 1360 x 1020, 640 x 480

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

Viewfinder: Color (180K)

LCD: 3.5" Color (246K)

Accessory Shoe: Yes (Intelligent)

Portable Printer Capable: Yes

Video Input/Output: Yes/Yes (Special and S-Video)

Audio Input/Output: Yes/Yes (Stereo)

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 (Mini, Stereo)

Mic-Input: Yes (Stereo)

White Balance: Auto, Outdoor, Indoor, Hold

Exposure: Yes/Dial (24 Step)

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

Power Consumption (VF/LCD/VF+LCD): 3.4W/4.5W/4.8W

Dimensions (WHD): 2 7/8" x 3 5/8" x 6 5/8" (72mm x 91mm x 168mm)

Weight: 1 lb 11 oz (785g) w/Battery

Supplied Accessories: AC-L10 Power Adapter/In Camera Charger, NP-FM50 InfoLithium Rechargeable Battery, RMT-811 Wireless Remote Commander®, 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), TPP-3ST Stylus

worry FREE BATTERY LIFE

Battery* (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FM30	90/65/60 min	80/125 min
NP-FM50	145/105/100 min	135/200 min
NP-FM70	305/225/210 min	285/415 min
NP-QM71	355/265/245 min	335/485 min
NP-FM91	535/400/375 min	505/725 min
NP-QM91	535/400/375 min	505/725 min

*Results may vary



MEMORY MODE



Memory Stick Media	1360 x 864/640 x 480		
	Super Fine	Fine	Standard
8MB	8/40	17/80	25/120
16MB	17/80	34/160	50/240
32MB	35/160	69/325	100/485
64MB	71/325	140/650	205/980
128MB	140/650	280/1310	415/1970



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

BTA-NW1 Bluetooth Modem Adapter	VCL-HG0737X High Grade Wide Angle Lens
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 Natural 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-O637H Wide Angle Lens	VCT-R610 Lightweight Tripod
	VCT-TK1 Pocket Tripod

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** Not compatible with USB Streaming.

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SONY

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DCR-PC120BT

Network Handycam® Camcorder



FEATURES

Mini DV

Mini DV digital recording format delivers 3X color bandwidth of VHS and lower signal to noise ratio compared to analog formats and provides stunning video performance.

1.5 Mega Pixel CCD



1/4" CCD with 1,550,000 gross pixels provides stunning detail and clarity, with exceptional video and still image performance.

Advanced HAD™ CCD Technology

The Advanced HAD (Hole Accumulation Diode) CCD allows 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). Particularly effective when shooting in dark situations.

530 Lines of Horizontal Video Resolution

Sony's Advanced HAD™ CCD technology, combined with Carl Zeiss® optics, provide outstanding video performance with 530 horizontal lines of resolution.

► Network Connectivity with Bluetooth™ Technology



Connect the camera wirelessly, via Bluetooth™ enabled network technology, to the Internet. This PC free connection allows wireless transfer of still images and MPEG1 movies, captured on Memory Stick® media, via the **supplied** Bluetooth adapter (BTA-NW1). Images and MPEG movies can be emailed to family and friends, or shared via Sony's ImageStation™ service on the World Wide Web. You can even browse the Internet wirelessly.

► Professional Quality Carl Zeiss® Vario-Sonnar T* Lens

Carl Zeiss® T* lens offers an advanced multi-layer coating system, resulting in even less glare and lens flare compared to other systems. The result is vivid image brilliance with outstanding contrast and accurate color rendition across the spectrum.

► STEP-UP FEATURE

10X Optical/120X Precision Digital Zoom

The Carl Zeiss® Optical zoom brings the action close up from far away. In addition, precision digital zoom interpolation technology means that extreme digital zooming is clearer, with less distortion than previous types of digital zoom.

Super SteadyShot Picture Stabilization



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

Digital Still Memory Mode with Memory Stick® Media



Digital Still Memory Mode captures high quality digital still images at 1360 x 1020 or 640 x 480 resolution, directly onto Memory Stick® media for easy transfer to PCs for email, printing, or sharing with family and friends.

Progressive Shutter System

Mechanical shutter system that provides Progressive Scan performance while utilizing an interlaced scanning system. Digital still images will be sharp and clear with excellent definition.

14-Bit DXP A/D Conversion

14-bit DXP (Digital Extended Processor) captures the dynamic range between light and dark areas of your subject, providing an overall improvement without losing detail (highlights and shadow).

► Hologram AF Low Light Laser Assist Focus System

Hologram AF (Auto Focus) Low Light Laser Assist Focus system uses lasers for improved edge detection in low light situations allowing focusing to be more accurate for digital still images.

MPEG Movie Mode



Capture MPEG1 compressed video and audio directly to Memory Stick media, at 320 x 240 or 160 x 112 file resolutions. These are great for emailing small video clips (up to 60 seconds) to family and friends. Shoot an MPEG movie "on location" or select your favorite scene from your personal videos and create MPEG movies for emailing and sharing via the internet.

USB Interface



Provides an easy way to connect Digital Handycam camcorders to computers for fast transfer of digital still images and MPEG movies from Memory Stick media.

i.LINK® DV Interface (IEEE 1394)



Allows high speed bi-directional digital video and audio communication between two devices equipped with a IEEE 1394 interface, including camcorders, digital VTRs, capture cards, and PCs.

Index Titling

Allows for custom titles (up to 22 characters) and 8 preset titles in 2 sizes, 7 colors, 9 positions. Index Titling allows you to add professional looking text to your videos.

Digital Program Editing

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

2.5" Precision SwivelScreen™ LCD Display (211K)

The 2.5" Precision SwivelScreen LCD Display provides excellent viewing clarity with improved resolution. The 211K Pixel LCD display makes images sharp and detailed during playback or monitoring recording.

Precision Color Viewfinder (180K)

Increased pixel count provides more detail and clarity of video subjects.

DCR-PC120BT

ADDITIONAL FEATURES

Analog-to-Digital Conversion with Pass-Through	Interval Frame Recording
Super NightShot 0 Lux System	Memory Mix Modes
InfoLithium® Battery with AccuPower™ Meter System	Manual Focus Ring
Stamina® Power Management System up to 7.5 Hours Recording	Manual Exposure
Intelligent Accessory Shoe	White Balance
▶ Pop-Up Flash with Red-eye Reduction	16:9 Wide Mode
	8 Picture Effects
	6 Digital Effects
	7 Fader Modes

SPECIFICATIONS

Imaging Device: 1/4" 1550K Gross Pixels, Advanced HAD™ CCD

Video Actual: 970K Pixels

Still Actual: 1390K Pixels

F: 1.8-2.2

Focal Distance: 4.2 – 42mm

35mm Conversion: 48 – 480mm (Camera Mode)
40 – 400mm (Memory Mode)

Filter Diameter: 37mm

Lens Type: Carl Zeiss® Vario-Sonnar T*

Optical Zoom: 10X

Digital Zoom: 120X

Focusing: Full Range Auto/Manual Ring

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

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

Memory Mode: Yes, 1360 x 1020, 640 x 480

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

LCD: 2.5" Precision SwivelScreen™ Color LCD, 211K

Viewfinder: Precision Color, 180K Pixels

Accessory Shoe: Intelligent

Video Input/Output: Yes/Yes, S-Video, Mini A/V

Audio Input/Output: Yes/Yes, Mini A/V (Stereo)

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

USB: Yes

Headphone Jack: Stereo, Mini

Mic-Input: Stereo, Mini

White Balance: Auto, Indoor, Outdoor, Hold

Exposure: Auto, Manual Preset (24 steps)

Power Consumption (VF/LCD/VF+LCD): 3.8W/4.4W/4.7W

OS Compatibility: Microsoft® Windows® 98SE, 2000, Me, XP, NT4.0;
Macintosh® 7.6.1-9.0

Dimensions (WHD): 2 ¼ x 4 ¾ x 4 ½" (57 x 118 x 113mm)

Weight: 1 lb, 8 oz (690g) with battery

Supplied Accessories: BTA-NW1 Bluetooth Modem Adapter,
RMT-811 Wireless Remote Commander® Remote, AC-L10
Power Adapter, NP-FM50 InfoLithium Rechargeable Battery,
2 AA Batteries, USB Cable, Lens Hood, 8MB Memory Stick
Media, A/V Cable, Lens Cap, CD-Rom Software MGI
PhotoSuite® v8.1/MGI VideoWave® III (Microsoft® Windows®),
MGI PhotoSuite® SE v1.1 (Macintosh®)

worry FREE BATTERY LIFE

Battery* (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FM50	130/110/100 min	150/185 min
NP-FM70	270/230/215 min	310/385 min
NP-FM91	475/410/380 min	550/670 min

*Results may vary



MEMORY MODE



Memory Stick Media	640 x 480 /1360 x 1020		
	Super Fine	Fine	Standard
4MB	19/4	39/8	58/12
8MB	40/8	80/17	120/25
16MB	80/17	160/34	240/50
32MB	160/35	325/69	485/100
64MB	325/71	650/140	980/205
128MB	650/140	1310/280	1970/415



MPEG MOVIE MODE

Memory Stick Media	Email Mode (160 x 112)	Presentation Mode (320 x 240)
4MB	2 min 40 sec	40 sec
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

ACC-KITFM50 Starter Kit (Carrying Case and Battery NP-FM50)	VF-37PKS Polarizing Filter Kit
NP-FM50/FM70/FM91 InfoLithium Battery	ECM-HS1 Stereo Zoom Microphone
MSA-8A/16A/32A/64A/128A Memory Stick Media	HVL-20DM 20 Watt Video Light (Operates with optional NP-FM70/FM91 InfoLithium Battery)
MSAC-FD2MA Memory Stick Floppy Disk Adapter	VCT-680RM Remote Control Tripod
MSAC-PC2 Memory Stick PC Card Adapter	AC-VQ850 AC/DC Quick Charger
MSAC-A8 Memory Stick Holder	VMC-IL4415 i.LINK 4 Pin/4 Pin Digital Video Cable
VCL-R2037S Telephoto Lens	VMC-IL4615 i.LINK 4 Pin/6 Pin Digital Video Cable
VCL-0637S Wide Angle Lens	DPP-SV55 Digital Photo Printer
	DPP-SV77 Digital Photo Printer w/LCD

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DCR-TRV950

Digital Handycam® Camcorder



FEATURES

► 3 CCD

Using a 3 chip Advanced HAD™ CCD system and dichroic prism to separate color information, colors are extremely accurate, and color “bleeding” and “smearing” are significantly reduced.

► 3-1/4.7" Advanced HAD™ CCD Imagers 1.0 Mega Pixel Gross



3-1/4.7" Advanced HAD™ (Hole Accumulation Diode) CCD imagers with 690K effective pixels per CCD 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.

Mini DV Recording

Mini DV digital recording format delivers 3X color bandwidth of VHS and lower signal to noise ratio compared to analog formats and provides stunning video performance.

Advanced HAD™ CCD Technology

The Advanced HAD (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). Particularly effective when shooting in dark situations.

► 530 Lines of Horizontal Resolution

Sony's Advanced HAD Mega Pixel CCD technology, combined with premium optics provide outstanding video performance with up to 530 horizontal lines of resolution.

Network Capability with Bluetooth™ Technology



™ Connect the camera, wirelessly, via Bluetooth™ technology, to the Internet. This allows wireless transfer of still images and MPEG1 movies, captured on Memory Stick® media, via the optional modem adapter (BTA-NW1). Images and MPEG movies can be emailed to family and friend, or shared via Sony's ImageStation™ Service on the World Wide Web. You can even browse the Internet wirelessly.

12X Optical/150X Digital Zoom

Brings the action close-up from far away for greater creativity, performance and convenience.

► 3.5" Precision SwivelScreen™ LCD Display (246K Pixels)

The 3.5" SwivelScreen™ LCD display provides excellent viewing clarity with improved resolution. The 246K pixel LCD display makes images sharp and detailed during playback or when monitoring recording.

► Touch Panel LCD with Stylus

The “On Screen” touch panel system allows you to navigate through the camera's menu system at the touch of the LCD screen using the supplied stylus.

Precision Color Viewfinder (180K Pixels)

Increased pixel count provides more detail and clarity of video subjects.

Super SteadyShot Optical Stabilization System



Minimizes even high frequency shake and vibration using motion sensors and an optical active prism stabilization system, for better performance even in difficult shooting situations.

Memory Mode with Memory Stick® Media



Digital Still Memory Mode captures high quality Mega Pixel still images up to 1152 x 864 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.

Intelligent Auto Pop Up Flash with Red-Eye Reduction

Provides the appropriate amount of flash for optimum brightness and color accuracy in virtually any lighting condition. The Red-Eye Reduction system uses a series of pre-flashes that cause the subject's pupils to contract, reducing the possibility of reflection from the back of the eye that causes the red-eye problem.

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.

► STEP-UP FEATURE

DCR-TRV950

ADDITIONAL FEATURES

Spot Focus/Spot Meter	Playback Zoom
Analog-to-Digital Conversion with Pass Through	PIM (Print Image Matching)
Stamina® Power Management System	Print Mark
Progressive Shutter System	Digital Program Editing
14 Bit DXP A/D Conversion	Picture Effect Modes
Photo Mode	Interval/Frame Recording
Photo Save	Index Titling
	Intelligent Accessory Shoe
	AE Bracketing
	Burst Mode

SPECIFICATIONS

Imaging Device: 3-1/4.7" 1,070K Gross Pixels,
Advanced HAD™ CCDs

Video Actual: 690K per CCD Imager

Still Actual: 1,000K per CCD Imager

F: 1.6-2.8

Focal Distance: 3.6-43.2mm

35mm Conversion: 49-588mm (Camera Mode)
41-492mm (Memory Mode)

Filter Diameter: 37mm

Optical Zoom: 12X

Digital Zoom: 150X

Focusing: Full Range Auto/Manual/Spot (Touch Panel)

Minimum Illumination: 7 Lux

NightShot Infrared System: N/A

Shutter Speed: 1/4-1/10,000 (AE Mode)

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

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

Viewfinder: Color (180K)

LCD: 3.5" Color (246K)

Accessory Shoe: Yes (Intelligent)

Portable Printer Capable: Yes

Video Input/Output: Yes/Yes (Special and S-Video)

Audio Input/Output: Yes/Yes (Stereo)

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

USB Terminal: Yes

USB Streaming: Yes

Headphone Jack: Yes (Mini, Stereo)

Mic-Input: Yes (Stereo)

White Balance: Auto, Outdoor, Indoor, Hold

Exposure: Yes/Dial (24 Step)

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

Power Consumption (VF/LCD/VF+LCD): 4.9W/6.3W/6.6W

Dimensions (WHD): 3 3/4" x 4" x 8" (93mm x 99mm x 202mm)

Weight: 1 lb 11 oz (1065g) w/Battery

Supplied Accessories: AC-L10 Power Adapter/In Camera
Charger, NP-FM50 InfoLithium Rechargeable Battery,
RMT-811 Wireless Remote Commander®, 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), TPP-3ST Stylus

worry FREE

BATTERY LIFE

Battery* (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FM30	90/65/60 min	80/125 min
NP-FM50	150/110/100 min	135/200 min
NP-FM70	310/230/215 min	285/415 min
NP-QM71	365/270/250 min	335/485 min
NP-FM91	550/410/380 min	505/725 min
NP-QM91	550/410/380 min	505/725 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

BTA-NW1 Bluetooth Modem Adapter	VCL-HG0737X High Grade Wide Angle Lens
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
BC-VM50 Portable AC Charger	VCL-R2037X High Grade Telephoto Lens
DCC-L50 Car Battery Adapter Cable	VF-R37K Natural 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
	VCT-TK1 Pocket Tripod

SONY

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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-VX2000

Digital Handycam® Camcorder



FEATURES

Mini DV Recording

Offering higher resolution, wider color bandwidth, and lower noise than virtually any other analog format.

3-1/3" CCD 380K Pixels

Using a 3-CCD system and dichroic prism to separate color information, colors are extremely accurate, and color "smear" or "bleed" is significantly reduced.

Advanced HAD™ CCD Technology

Hole Accumulation Diode design CCD imager that reduces noise in the video signal to improve signal to noise ratio by up to 6 db, 2x better than a standard CCD. Particularly effective when shooting in dark situations.

Up to 530 Lines Horizontal Resolution

Unprecedented in the consumer camcorder industry, the DCR-VX2000 reaches the limitations of Digital Video format with up to 530 lines of horizontal resolution.

12X Optical/48X Digital Zoom

Brings the action close-up from far away for greater creativity, performance and convenience.

➤ Manual Zoom Ring

Allows user operated manual zoom speed for more flexibility and control.

➤ Aspherical Ground Glass 58mm Lens

Larger diameter allows more light to strike the Advanced HAD CCD images for greater detail and clarity, while the aspherical lens reduces optical distortion, and provide better corner to corner focus.

➤ 2.5" 200K Pixel SwivelScreen™ Color LCD

Provides excellent viewing clarity with improved resolution. The 200,000 Pixel LCD display makes images sharp and detailed during playback or monitoring recording.

Precision Color Viewfinder

180K pixels provide excellent viewing clarity.

Digital Still Memory Mode uses Memory Stick® Digital Media



Capture high-quality VGA (640 x 480) still images and store them on removable Memory Stick® storage media. A 4MB stick comes supplied.

i.LINK®** DV Interface (IEEE-1394)



Allows high speed bi-directional digital communication between any two devices equipped with a IEEE-1394 interface, including camcorders, digital VTRs, capture cards and PCs.

Super SteadyShot Optical Stabilization System



Minimizes even high frequency shake and vibration using motion sensors and an optical active prism stabilization system, for better performance even in difficult shooting situations.

Digital Audio/Video Fader

Allows you to transition creatively from scene to scene. Choose from Black, Overlap, Wipe, Monotone and Random Dot.

Manual Shutter Speed

Gives you optimum control over the shutter speed, you set the shutter speed based on shooting environment or desired effect, (1/4-1/10,000).

Manual Exposure Dial

Create your own special look by controlling the camera's exposure manually, allow more/less light in for creative control.

12-Bit/16-Bit PCM Digital Stereo Audio

16-bit offers one pair of stereo tracks and achieves up to the same quality as CD or DAT, while 12-bit modes 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.

Analog-to-Digital Conversion with Pass-Through

The analog inputs on the DCR-VX2000 features a built-in A/D converter that will convert your analog video/audio to a digital signal that can either be recorded on to tape or passed-through the i.LINK®** interface to a compatible computer or recorded to another digital camcorder.

Digital Program Editing

Allows you to select a sequence of 20 scenes and then controls dubbing via i.LINK®** interface/connector to another compatible i.LINK® camcorder, or via Infra-red Remote to analog VCR. Controls both Sony and other brand camcorders and VCRs (codes for 59 VCR brands with timing adjustment available). You can easily select and arrange up to 20 of the best scenes from your DV camcorder and record them onto another digital camcorder or analog VCR.

InfoLithium® Battery with AccuPower™ Meter System



Rechargeable Lithium Ion battery means no "memory effect" like other battery types can experience. Sony's exclusive AccuPower™ meter continuously displays the battery time remaining in minutes, in the viewfinder or LCD screen.

Stamina® Power Management System 9 Hours



The Sony DCR-VX2000 DV Handycam® camcorder will record for up to 9 hours on one charge of the optional NP-F960 battery.

➤ STEP-UP FEATURE

DCR-VX2000

ADDITIONAL FEATURES

- Intelligent Accessory Shoe
- PictureGear™ 4.1 Lite Software Included
- Color Bar Generator
- 2 Position Neutral Density Filter
- 2 Step Zebra Pattern

SPECIFICATIONS

Imaging Device: 3-1/3" 380k Gross Pixels Type Advanced HAD
CCDs, 380k Pixel (gross) each

Video Actual: 340k per Imager

F: 1.6-2.4

Optical Zoom: 12X

Digital Zoom: 48X

f (Focal Distance): 6.0-72.00mm

f (35mm Conversion): 43.2-518.4mm (Camera Mode)

Filter Diameter: 58mm

Focusing: Full Range Auto/Manual Ring

Minimum Illumination: 2 Lux

Shutter Speeds: 1/4-1/10,000 (in AE mode)

Viewfinder: Precision Color (180k Pixels)

Accessory Shoe: Intelligent

Video input/output: S-Video, Phone Jack

Audio input/output: Stereo Phono

i.LINK®* DV Interface (IEEE-1394): Yes, bi-directional

Headphone Jack: Stereo Mini

Control L (LANC) Terminal: Stereo Mini

Mic Input: Stereo Mini

White Balance: Auto/Indoor/Outdoor

Exposure: Manual Dial (24 steps)

Power Consumption (VF/LCD/VF+LCD): 4.0W/4.7W/5.0W

Dimensions: (WHD) 4 5/8" x 5 3/4" x 13 1/2"

Weight: 3 lbs 1 oz

Supplied Accessories: ACL-10 Power Supply, NP-F330 Battery,
RMT 811 Wireless Remote Control,
Stereo A/V Cable, Lens Hood, Lens Cap,
4MB Memory Stick® Digital Media,
PictureGear™ 4.1 Lite Software,
Memory Stick® Reader/Writer with USB
Driver Software

worry FREE BATTERY LIFE

Battery (Fully charged)	Viewfinder	LCD
NP-F330	75 mins	60 mins
NP-F550	150 mins	130 mins
NP-F750	315 mins	265 mins
NP-F960	575 mins	480 mins



MEMORY MODE



Memory Stick Media 640 x 480 (VGA)	Fine	Standard
4MB	40	60
8MB	81	122
16MB	164	246
32MB	329	494
64MB	659	988
128MB	1310	1970

OPTIONAL ACCESSORIES

NP-F550/750/960 InfoLithium® Battery

AC-VQ850 Battery Quick Charger

LCH-VX2000 Case

VCT-R570RM, VCT-R670RM Full Size, Remote Operation Tripod

IFT-R20 Laserlink® Wireless Receiver

MSA-8A/16A/32A/64A/128A Memory Stick Media

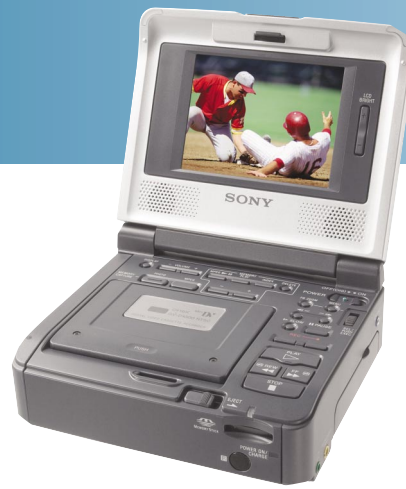
* i.LINK is a trademark of Sony, used only to designate that a product contains an IEEE 1394 connector. All products with an IEEE 1394 connector may not communicate with each other.

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GV-D1000

Digital Video Walkman™ VCR



FEATURES

Mini DV Format

Mini DV recording format delivers 3X the color bandwidth of VHS with significantly less video noise ratio compared to analog formats and providing stunning video performance.

4" LCD Display (123K Pixels)

Provides excellent viewing clarity with improved resolution. The 123K pixel LCD rotates for multiple viewing angles providing sharp detailed images for monitoring or playback.

Digital Still Memory Mode with Memory Stick® Media



Capture digital still images at 640 x 480 resolution from videotapes, analog inputs or digital video i.LINK®** input, directly onto Memory Stick media. The images can be easily transferred to PCs for emailing, printing or sharing with other compatible Memory Stick devices.

MPEG Movie Mode

Capture MPEG1 compressed video with audio directly to Memory Stick media. Shoot an MPEG Movie "on location" or select up to 60 seconds from your recorded videotapes. The Video Email mail mode, 160 x 112, is ideal resolution for sharing videos via the Internet. Use the Presentation Mode, 320 x 240, to increase the resolution for greater detail.

► USB Streaming

Stay connected with family and friends by broadcasting prerecorded videos with audio, via the internet with the USB interface. It's like having your own video conferencing system.

i.LINK®** DV Interface (IEEE1394)



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

Analog Input/Output Capability

Utilizing standard composite video inputs will allow the capability to record previous recorded video on a smaller more compact MiniDV tape. Utilizing the higher quality S-Video cable reduces "Dot Crawl" which is commonly seen as distortion around the edge of the recorded video signal, which is normally found from analog sources.

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.

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.

SP and LP Record/Playback

Standard Play offers up to 60 minutes of digital recording, or Long Play for up to 90 minutes, on one Mini DV cassette.

Digital Program Editing

Allows you to select a sequence of 20 scenes and then control dubbing via i.LINK®** to another i.LINK®** camcorder, via infrared remote to an analog VCR. Controls both Sony and other brand camcorders and VCRs.

Precision Assemble Editing with Optional DSRM-E1 (99 Segment x 4)

USB Interface

Provides an easy way to connect the Video Walkman® VCR to computers for fast transfer of digital images and MPEG movies.

Playback Zoom

Manipulates the picture inside the Video Walkman™ VCR. While playing back your images on the Video Walkman™ VCR, it allows you to edit your images by zooming in (up to 2 times) and cropping your picture (up, down, left, right). You can save the new image as a separate file. Resize lets you save a copy of an image to a smaller or larger file size.

► Print Mark

Pre-select your digital still images (in the camcorder) for printing, and connect with a DPOF (Digital Print Order Format) compatible printer for hassle free printing. Because your images are already selected, your printing experience will be fast and enjoyable.

Crystal Clear Still/Slow Motion Playback

Digital video provides noise free playback in slow motion and in the pause mode for detailed playback.

Index Titler

Add titles to your videos. Allows an updateable title to be stored on a DV cassette IC chip and accessed using the GV-D1000 data code.

Cassette Memory

Compatible with the Mini DV tapes with a built-in 4K Integrated Circuit Memory Chip. The Memory Chip provides the ability to read and write data that can be used to access index points, Photo ID points, Title for the scene or Title for the entire tape.

InfoLithium® M Series Battery with AccuPower Meter System (Optional)

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".

► STEP-UP FEATURE

SPECIFICATIONS

Format: Digital Video (Mini DV) Standard
Video Signal: NTSC Standard
Video Resolution: Up to 530 Horizontal Lines of Resolution
Sampling Frequency: 13.5 MHz
Video Rec. System: Helical Scan
Audio Record System: Helical Scan 12/16-bit PCM
Video Input/Output: Mini Jack (Input), Composite (Output)
S-Video Input/Output: Yes/Yes
Audio Input/Output: Mini Jack (Input), Composite (Output)
i.LINK DV Interface (IEEE 1394): In/Out (4 pin)
USB Terminal: Yes
USB Streaming: Yes, Playback Only
Headphone Jack: Stereo (Mini)
Control L (LANC) Terminal: Stereo (Mini)
Power Consumption: 7.2V; Record: 5.0 W (LCD on),
 3.3 W (LCD off)
Playback: 5.2 W (LCD on), 3.5 W (LCD off)
Dimensions (WHD): 5 7/8" x 2 5/8" x 5 3/8"
Weight: 2 lbs
Supplied Accessories: AC-L10 Power Adapter, AV Cables,
 RMT-811 Remote Commander®, 2 AA batteries,
 CD-ROM Drivers (PIXELA ImageMixer 1.0), USB Cable
Software OS Compatibility: Microsoft® Windows® 98SE, ME,
 2000, XP; Macintosh® 8.5.1, 8.6, 9.0, 9.1, 10.0,
 10.1**

OPTIONAL ACCESSORIES

VMC-IL4415 i.LINK DV Interface Cable
 VMC-IL4435 DV Interface Cable (3.5 Meter)
 DSRM-E1 Edit Controller
 TGV-100 TV Tuner
 NP-FM30/50/70/91 InfoLithium Batteries
 NP-QM71/91 SuperQuick Battery
 AC-SC950D AC Quick Charger for SuperQuick Batteries
 MSA-8A/16A/32A/64A/128A Memory Stick Media

worry FREE BATTERY LIFE

Battery* (Optional) (Fully charged)	Rec Time LCD On/Off	Playback Time LCD On/Off
NP-FM30	55/90 min	55/85 min
NP-FM50	95/150 min	90/140 min
NP-FM70	205/310 min	195/295 min
NP-QM71	235/365 min	225/340 min
NP-FM91	360/550 min	345/520 min
NP-QM91	360/550 min	345/520 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

SONY

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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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DHR-1000

Digital Video Deck



FEATURES

DV Format

DV recording format delivers 3X the color bandwidth of VHS with significantly less video noise ratio compared to analog formats and providing stunning video performance.

Digital Video Deck

High quality DV editing and Time Shifting Capability.

Component Video Recording

Dramatically improves color rendition and accuracy while reducing color smear.


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.

180 Minutes Recording

On "standard" DV-180 cassette or 60 minutes on "mini" DV-60 cassette.

i.LINK® DV Interface (IEEE1394)

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

10 Segment Assemble Editor with Edit Window

Offers on-board assemble editor that's enhanced by Edit window feature providing preview window, and thumbnails of all "cut-in" and "cut-out" points for easy review of "cuts."

Video/Audio Insert Capability, Audio Dubbing

In 12-bit PCM mode you can add a 2 CD 12-bit stereo soundtrack.

STEP-UP FEATURE

Video On Sound (VOS) Editing

Capability allows you to replace video without affecting original audio (usually not found on consumer VTRs).

Dual Cassette Mechanism

Accepts either standard or mini DV cassettes without the need for adapters. Crystal Clear Still, Slow-Mo (Fwd and Rwd used) and Frame Advance. Easy access to any frame for editing.

Removable Edit Tray with Jog/Shuttle Control

Controls deck and camera for editing, and all other primary features.

TBC (Time Base Correction)

Eliminates jitter.

Digital Comb Filter

Separates Y/C for cleaner, sharper detailed images.

Editing

- Drop Frame Time Code
- Control L (LANC)
- Fine Synchro Edit
- Whole Tape Copy
- Audio Level Meters (L & R)
- Camcorder Control

Convenience

- Cassette Memory Access
- 3 Search Modes (index, photo or date)
- Cable Ready 181 ch. MTS Tuner
- VCR+ System
- 8 Event/1 Month Timer
- Sony's Cable Mouse® Controller
- Auto Clock Set
- Front A/V Inputs
- Remote Commander® Remote Control

SPECIFICATIONS

Format: Digital Video (DV) Standard

Video Signal: NTSC Standard

Video Resolution: Up to 500 lines Horizontal Resolution

Sampling Frequency: 13.5 MHz

Useable Cassettes: DV Standard and DV Mini

Video Rec. System: Helical Scan

Audio Record System: Helical Scan 12/16-bit PCM

Audio Playback Modes:

12-bit/32KHz-2 Stereo Tracks

16-bit/44.1kHz-1 Stereo Track

16-bit/44.1kHz-1 Stereo Track

16-bit/32KHz-1 Stereo Track

Audio Dynamic Range: 96 db

i.LINK® DV Interface: IEEE1394 DV Interface

In/Out x1

Video Input/Output: 2x S-Video and 2x Phono Jacks

Audio Input/Output: 2x Phono Jacks (Stereo)

RF Antenna In/Out: 75 ohms

Headphone Jack: Stereo w/Volume (Front Panel)

External Mic Input: Stereo Mini Jack(Front Panel)

Control L (LANC) Terminal: Stereo Mini Jack x2

Control S Input: Mono Mini Jack

Total Channels: 181 MTS Stereo

Power Consumption: 43 W

Dimensions (WHD): 17" x 5 3/4" x 14 3/4"

Weight: 21 lbs 8 oz

Supplied Accessories: RMT-X1000A Wireless

Remote, S-Video Cable, Stereo A/V Cable, Coaxial Cable, Cable Mouse®, AA Batteries x2

OPTIONAL ACCESSORIES

VMC-IL4415 i.LINK® DV Interface Cable (1.5 meter)

VMC-IL4415 i.LINK® DV Interface Cable (3.5 meter)

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Mini DV

	DCR-TRV18	DCR-TRV25	DCR-TRV27
SPPG	\$799	\$899	\$999
A/V Performance			
Video Recording System	Mini DV	Mini DV	Mini DV
Video Playback System	Mini DV	Mini DV	Mini DV
Audio Recording System	PCM Digital	PCM Digital	PCM Digital
Audio Playback System	PCM Digital	PCM Digital	PCM Digital
CCD Imaging Device (gross pixels)	1/4" 680K	1/4.7" 1,070K	1/4.7" 1,070K
Filter Diameter	30mm	30mm	30mm
Carl Zeiss Lens	Yes	Yes	Yes
Memory Mode (Digital Still Camera Function)	Yes	Yes	Yes
Memory Stick Digital Media (Supplied)	8MB	8MB	8MB
Progressive Shutter	Yes	Yes	Yes
Super NightShot Infrared/Color Slow Shutter	Yes/Yes	Yes/Yes	Yes/Yes
Optical Zoom Lens (variable speed)	10X	10X	10X
Digital Zoom	120X	120X	120X
SteadyShot Picture Stabilization	Yes (Super)	Yes (Super)	Yes (Super)
Minimum Illumination (w/o NightShot system)	5 lux	7 lux	7 lux
Minimum Illumination (w/ NightShot system)	0 lux	0 lux	0 lux
Shutter Speed	Auto 1/4-1/4000 (in AE Mode)	Auto 1/4-1/4000 (in AE Mode)	Auto 1/4-1/4000 (in AE Mode)
Power Management			
Stamina Battery Life	Up To 13 Hours	Up To 12 Hours	Up To 12 Hours
AccuPower Battery Meter	Yes	Yes	Yes
Convenience			
SwivelScreen LCD Monitor (diagonal)	2.5"	2.5"	3.5"
Viewfinder	Color	Color	Color
i.LINK DV Interface (IEEE1394)	Yes	Yes	Yes
USB Interface	Yes	Yes	Yes
Control-L (LANC) Edit interface	Yes	Yes	Yes
Analog Audio/Video Inputs	Yes/Yes (Mini)	Yes/Yes (Mini)	Yes/Yes (Mini)
A/D Conversion w/ Pass Through	Yes	Yes	Yes
Built-In Speaker	Yes	Yes	Yes
Edit Search	Yes	Yes	Yes
World Time Clock	Yes	Yes	Yes
Intelligent Accessory Shoe	Yes	Yes	Yes
Remote Control	RMT-814	RMT-814	RMT-814
Dimensions (W x H x D)	3 x 3 3/4 x 6 1/2" 76mm x 93mm x 162mm	3 x 3 3/4 x 6 1/2" 76mm x 93mm x 162mm	3 x 3 3/4 x 6 1/2" 76mm x 93mm x 162mm
Weight (w/o tape and battery)	1 lb 5 oz (620 g)	1 lb 6 oz (640g)	1lb 7 oz (660g)
Special Features			
Memory Mix	Yes	Yes	Yes
Playback Zoom	5X	5X	5X
Picture Effects	8 Modes	8 Modes	8 Modes
Digital Picture Effects	6 Modes	6 Modes	6 Modes
USB Streaming	Yes	Yes	Yes
Print Image Matching (PIM)	Yes	Yes	Yes
Audio/Video Digital Fader	6 Modes	6 Modes	6 Modes
Preset Titler	Yes	Yes	Yes
16:9 Recording	Yes	Yes	Yes
Digital Photo Mode	Yes	Yes	Yes
MPEG Movie Mode	Yes	Yes (EX)	Yes (EX)
BlueTooth	N/A	N/A	N/A
Touch Screen	N/A	N/A	N/A
Manual Controls			
Program Auto Exposure	6 Modes	6 Modes	6 Modes
Manual Focus	Yes (Focus Ring)	Yes (Focus Ring)	Yes (Focus Ring)
Manual Exposure	Yes (Dial)	Yes (Dial)	Yes (Dial)

DCR-PC101	DCR-TRV50	DCR-PC120BT	DCR-TRV950	DCR-VX2000
\$1,299	\$1,599	\$1,999	\$2,499	\$2,999
Mini DV	Mini DV	Mini DV	Mini DV	Mini DV
Mini DV	Mini DV	Mini DV	Mini DV	Mini DV
PCM Digital	PCM Digital	PCM Digital	PCM Digital	PCM Digital
PCM Digital	PCM Digital	PCM Digital	PCM Digital	PCM Digital
1/4.7" 1,070K	1/4" 1,550k	1/4" 1,550k	3-1/4.7" 1,070K	3-1/3" 380k
30mm	37mm	37mm	37mm	58mm
Yes	Yes	Yes, T*	N/A	N/A
Yes	Yes	Yes	Yes	Yes
8MB	8MB	8MB	8MB	4MB
Yes	Yes	Yes	Yes	Progressive Scan
Yes/Yes	Yes/Yes	Yes/No	N/A	N/A
10X	10X	10x/120x	12X	12X
120X	120X	120X	150X	48X
Yes (Super)	Yes (Super)	Yes (Super)	Yes (Optical)	Yes (Optical)
7 lux	7 lux	7 lux	7 lux	2 lux
0 lux	0 lux	0 lux	0 lux	N/A
Auto1/4-1/4000 (in AE Mode)	Auto 1/4-1/4000 (in AE Mode)	Auto 1/4-1/4000 (in AE Mode)	Auto 1/4-1/10000 (in AE Mode)	Auto 1/5-1/10000 (in AE Mode)
Up To 11 Hours	Up To 12 Hours	Up To 7.5 Hours	Up To 9 Hrs.	Up To 9.5 Hrs.
Yes	Yes	Yes	Yes	Yes
2.5"	3.5" Precision	2.5"	3.5" Precision	2.5" Precision
Precision Color	Precision Color	Precision Color	Precision Color	Precision Color
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	N/A
Yes	Yes	Yes	Yes	Yes
Yes/Yes (Mini)	Yes/Yes (Mini)	Yes/Yes (Mini)	Yes/Yes (Mini)	Yes/Yes (Mini)
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
RMT-814	RMT-811	RMT-811	RMT-811	RMT-811
2 1/4 x 4 1/4 x 4"	2 7/8 x 3 5/8 x 6 5/8"	2 1/4 x 4 3/4 x 4 1/2 "	2 7/8 x 3 5/8 x 6 5/8"	4 5/8 x 5 3/4 x 13 1/2"
55mm x 105mm x 99mm	72mm x 91mm x 168mm	57mm x 118mm x 113mm	72mm x 91mm x 168mm	115mm x 145mm x 342mm
1 lb 1 oz (490g)	1 lb 8 oz (700g)	1 lb 4 oz (580g)	1 lb 8 oz (700g)	3 lbs 1 oz (1.4kg)
Yes	Yes	Yes	Yes	Yes
2X	5X	5X	5X	N/A
6 Modes	8 Modes	8 Modes	8 Modes	6 Modes
6 Modes	6 Modes	6 Modes	6 Modes	5 Modes
Yes	Yes	N/A	Yes	N/A
Yes	Yes	Yes	Yes	N/A
7 Modes	7 Modes	7 Modes	6 Modes	5 Modes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes (EX)	Yes	N/A	N/A
N/A	Yes	Yes	N/A	N/A
Yes	Yes	N/A	N/A	N/A
7 Modes	6 Modes	Yes	6 Modes	5 Modes
Yes (Focus Ring/Touch)	Yes (Focus Ring/Touch)	Yes (Focus Ring)	Yes (Focus Ring/Touch)	Yes (Focus Ring)
Yes (Touch Panel)	Yes (Dial/Touch Panel)	Yes (Dial)	Yes (Dial/Touch Panel)	Yes (Dial)

Video Walkman/VCR

	GV-D200	GV-D800	GV-D1000	DHR-1000
SPPG	\$699	\$899	\$1,299	\$3,999
Format	Digital8	Digital8	Mini DV	DV, Mini DV
Video Recording System	Digital8	Digital8	Mini DV	DV, Mini DV
Video Playback System	8mm, Hi8, Digital8	8mm, Hi8, Digital8	Mini DV	DV, Mini DV
Audio Recording System	PCM Digital	PCM Digital	PCM Digital	PCM Digital
Stereo Audio	12/16-Bit PCM	12/16-Bit PCM	12/16-Bit PCM	12/16-Bit PCM
Audio Dubbing (12-Bit Mode)	N/A	N/A	Yes	Yes
Index Titling	N/A	N/A	Yes	Yes
i.LINK (IEEE1394) In/Out	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
LCD Monitor/Speaker	N/A	Yes (4")/Yes	Yes (4")/Yes	N/A
Assemble Edit	20 Segment	20 Segment	20 Segment	10 Segment Assemble
Analog Input Record	Yes	Yes	Yes	Yes
Mic Jack/LANC	No/Yes	No/Yes	No/Yes	No/No
Battery DC Operation	Yes	Yes	Yes	N/A
Weight	1 lb 7 oz	2 lbs 1 oz	2 lbs 0 oz	21 lbs 8 oz
Dimensions	5 7/8 x 2 x 5 3/8"	5 7/8 x 2 5/8 x 5 3/8"	5 7/8 x 2 5/8 x 5 3/8"	17 x 5 3/4 x 14 3/4"

THE MICROMV™ STORY

MICROMV™ Handycam® Camcorders: *...the next “big” thing.*

The World's Smallest and Lightest Digital Camcorders

Decades of camcorder experience has taught us: small sells. In its day, 8mm was the small size champion. Then DV took the crown. Now Sony introduces the world's smallest and lightest digital camcorders—the MICROMV™ Digital Handycam® models. The first MICROMV™ camcorders are small enough to slip into a pocket. They're about 75% smaller and 60% lighter than 8mm camcorders! Now more people can comfortably take a camcorder in more situations than ever before, including mountain climbing, skiing and all-day hikes. And customers can easily carry the MICROMV™ models in purses, briefcases and tote bags, as well as pockets.

Spectacular Picture Quality.

Despite its small size, the new MICROMV™ format achieves picture quality comparable to Mini DV and Digital8® recording! The secret is the super-efficient MPEG2 encoding system—similar to the encoding used in DVD-Video discs and digital satellite broadcasts. MICROMV™ camcorders achieve horizontal resolution of up to 500 lines—better than broadcast television. And like DVD-Video, the MICROMV™ format offers not just digital video, but also true component video, for colors that are crisp, accurate and vivid!

Digital Stereo Sound

Just as the MICROMV™ cassette holds MPEG2 digital video, it also captures MPEG Audio Layer2 sound. You'll hear superb fidelity with extended frequency response and rich, impressive dynamic range.

Ultra-Compact Videocassette

When you compare the size of videocassettes, you can see that Hi8™ cassettes are a full generation ahead of standard VHS. And Mini DV is a full generation ahead of Hi8™ tapes. But prepare for a shock. The MICROMV™ cassette is 70% smaller than Mini DV!

MICROMV™ Cassette Memory

All MICROMV™ cassettes include a 64K bit MICROMV™ Cassette Memory chip. This expanded capacity delivers a host of features.

- **Index Pictures.** Each time you press Record, the memory chip saves an index picture. You can use these index pictures like a DVD chapter menu. Just click on a scene to access it directly!
- **Index Titling.** You can assign a name to each tape that you can see by simply inserting the tape into the camcorder. You don't even need to press Play. You can also assign any scene a custom or preset title in a variety of colors.

- **Cassette Info Screen.** See at a glance what's on the cassette and how much recording time is left.

Going Wireless

Select Sony MICROMV™ Handycam® camcorders can transfer information from Memory Stick® media to the Internet. The camcorder can communicate wirelessly with the supplied BTA-NW1 Bluetooth™ adapter or with other compatible Bluetooth™ devices such as cell phones. You can even use the camcorder to send and receive emails or browse the web—right on the LCD screen!

Advanced Ergonomic Design

Can such a small camcorder still be easy to use? Sony answers with a resounding “yes!”

- **Power switch.** No more looking up just to see the position! Pull down once for camcorder mode, twice for VTR mode and three times for digital still mode.
- **Y-Axis Zoom.** It's never been easier to access multiple zoom speeds.
- **LCD Screen.** The screen folds back along the length of this amazingly small camcorder, making it easier to hold, watch and control.



The MICROMV i.LINK® Interface

All MICROMV™ camcorders include i.LINK® (IEEE 1394 MICROMV™ In/Out) connectors. Which means you can connect to a PC then create, enhance and edit using Sony's supplied MICROMV MovieShaker™ 3.1 software. When you're done, you can record the results back onto tapes or prepare them for burning to CDs or DVDs for family and friends.

Small Size, Full Features

Select Sony camcorders include extensive features and capabilities, reflecting everything we've learned over decades of leadership in the camcorder market.

- Professional-grade Carl Zeiss® Vario-Sonnar Lens
- 10X optical/120X Precision Digital Zoom
- Advanced HAD CCD image sensor with 680K pixels
- Digital Still Memory Mode with Memory Stick® media
- MPEG AD movie mode
- USB interface for digital stills and MPEG1 movies stored on Memory Stick® media
- 2.5" SwivelScreen™ Precision Hybrid LCD with 211K pixels
- Super SteadyShot Picture stabilization

The World's Smallest Digital Camcorders!

SONY

MICROMV

Sony's MICROMV™ Handycam® camcorders are small enough to slip into your shirt pocket. This revolutionary camcorder design is about 75% smaller than a typical VHS-C camcorder making MICROMV camcorders easier to carry around than ever before. Now you can take your camcorder almost anywhere and never miss a video or still image opportunity.



PC-free access to e-mail and the Internet!

Now you can browse the web, right from a Sony Network Handycam camcorder. Even send and receive e-mails, right on the LCD screen. Attach still images and MPEG movies from the camcorder's Memory Stick® media and send them to anyone via the Internet! (Available on select models.)

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DCR-IP5

Digital Handycam® IP



FEATURES

► MICROMV™

Sony's first tape based consumer MPEG2 recording format. The MICROMV media is 70% smaller than Mini DV media, allowing camcorders to be even smaller, while still providing high quality video comparable to Mini DV.

► MPEG2

MPEG2 (Motion Pictures Experts Group) is a compression technology that is PC friendly and provides video quality comparable to DV. MPEG2 compression is widely used in digital satellite broadcasting and DVD players. PC editing has never been easier than with the supplied MPEG2 compatible MovieShaker™ software version 3.1.

1/6" Advanced HAD™ CCD, 680K Pixels

1/6" CCD with 680,000 pixels provides stunning detail and clarity. The Advanced HAD (Hole Accumulation Diode) CCD allows 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) which is particularly effective when shooting in dark situations.

Resolution

Up to 500 lines of horizontal resolution realized through a combination of advanced optics, CCD imager and signal processing technologies which result in a higher level of video resolution.

Multi-Picture Search

Exclusive to MICROMV is the ability to provide thumbnail images of all recorded scenes, allowing quick and easy access to your favorite video memories.

Professional Quality Carl Zeiss® Vario-Sonnar Lens

The Carl Zeiss® lens has an advanced optical multi-layered coating offering less glare and flare with increased contrast for improved detail and clarity.

10X Optical/120X Precision Digital Zoom

The Carl Zeiss® optical zoom brings the action close up from far away. In addition, precision digital zoom interpolation technology means that extreme digital zooming is cleaner, with less distortion than previous types of digital zoom.

► 2.5" Precision SwivelScreen™ Hybrid LCD Display (211K)

The 211,000 pixel LCD provides excellent viewing clarity with improved resolution. The Hybrid system consist of a transmissive LCD combined with a reflective LCD. By turning off the LCD backlight, it will capture more ambient light virtually eliminating LCD "wash-out". Images will be visible in the LCD even in the most challenging lighting conditions.

Precision Color Viewfinder (180K)

Increased pixel count provides more detail and clarity of video subjects.

Super SteadyShot® Picture Stabilization



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 any degradation of the video like some other image stabilization systems.

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



Allows high speed bi-directional digital communication between two devices equipped with a MICROMV IEEE 1394 interface, including PCs and other MICROMV Handycam camcorders.

► Cassette Memory

Each MICROMV cassette comes equipped with a built-in 64KB Memory Chip that stores Custom Titles, valuable cassette information such as cassette ID and usage dates, and thumbnail image information from the beginning of a recorded video scene. Thumbnail images allow for easy access to recorded scenes.

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.

► STEP-UP FEATURE

ADDITIONAL FEATURES

Preset Exposure 8 Picture Effects
White Balance 6 Digital Effects
16:9 Wide Mode

SPECIFICATIONS

Imaging Device: 1/6" 680K Gross Pixels, Advanced HAD™ CCD
Video Actual: 340K Pixels
Still Actual: N/A
F: 1.7-2.3
Focal Distance: 2.3 – 23mm
35mm Conversion: 44 – 440mm
Filter Diameter: 30mm
Lens Type: Carl Zeiss® Vario-Sonnar
Optical Zoom: 10X
Digital Zoom: 120X
Focusing: Full Range Auto/Manual (Menu)
Minimum Illumination: 7 Lux
Shutter Speed: Auto, 1/4 - 1/750 (Program AE Mode)
Memory Mode: No
MPEG AD Movie Mode: No
LCD: 2.5" Precision SwivelScreen™ Hybrid Color LCD, 211K
Viewfinder: Precision Color (180K Pixels)
Accessory Shoe: No
Video Input/Output: Yes/Yes, Composite (Special), S-Video (Special)
Audio Input/Output: Yes/Yes (Special, Stereo)
i.LINK® MICROMV Interface (IEEE1394): Yes, 4 Pin
USB: No
Headphone Jack: No
Mic-Input: No
White Balance: Auto, Indoor, Outdoor, Hold
Exposure: Auto, Manual Preset (24 Steps)
Power Consumption (VF/LCD/VF+LCD): 3.5W/4.2W/4.5W
OS Compatibility: Microsoft® Windows® 2000, Me, XP
Dimensions (WHD): 1 7/8 x 4 x 3 1/8" (47 x 103 x 80mm)
Weight: 12 oz (367g) with battery
Supplied Accessories: RMT-818 Wireless Remote Commander®
Remote, AC-L20 Power Adapter, NP-FF50 InfoLithium Rechargeable Battery, 2 AA Batteries, i.LINK Cable (4 Pin/4 Pin), A/V Cable, Lens Cap, Wrist Strap, MGR-60 MICROMV Cassette, MGR-CLD Tape Head Cleaner, CD-Rom Software MovieShaker 3.1 (Microsoft® Windows®)

worry FREE BATTERY LIFE

Battery* (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FF50	80/65/60 min	65/80 min
NP-FF70	170/140/130 min	135/165 min

*Results may vary

OPTIONAL ACCESSORIES

MGR-60 MICROMV Cassette
NP-FF50, NP-FF70 InfoLithium Battery
VCL-R2030S Telephoto Lens
VCL-0630S Wide Angle Lens
VF-30CPKS Polarizing Filter Kit
VCT-610 Light Weight Tripod
VMC-IL4415 i.LINK 4 Pin/4 Pin Digital Video Cable
VMC-IL4615 i.LINK 4 Pin/6 Pin Digital Video Cable

SONY

Sony Electronics Inc.
16765 West Bernardo Drive
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.

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DCR-IP7BT

Network Handycam® IP



FEATURES

MICROMV™

Sony's first tape based consumer MPEG2 recording format. The MICROMV media is 70% smaller than Mini DV media, allowing camcorders to be even smaller, while still providing high quality video comparable to Mini DV.

MPEG2

MPEG2 (Motion Pictures Experts Group) is a compression technology that is PC friendly and provides video quality comparable to DV. MPEG2 compression is widely used in digital satellite broadcasting and DVD players. PC editing has never been easier than with the supplied MPEG2 compatible MovieShaker™ software version 3.1.

1/6" Advanced HAD™ CCD, 680K Pixels

1/6" CCD with 680,000 pixels provides stunning detail and clarity. The Advanced HAD (Hole Accumulation Diode) CCD allows 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) which is particularly effective when shooting in dark situations.

Resolution

Up to 500 lines of horizontal resolution realized through a combination of advanced optics, CCD imager and signal processing technologies which result in a higher level of video resolution.

► Network Connectivity with Bluetooth™ Technology



™ Connect the camera wirelessly, via Bluetooth™ enabled network technology, to the Internet. This PC free connection allows wireless transfer of still images and MPEG1 movies, captured on Memory Stick® media, via the supplied Bluetooth adapter (BTA-NW1). Images and MPEG movies can be emailed to family and friends, or shared via Sony's ImageStation™ service on the World Wide Web. You can even browse the Internet wirelessly.

Professional Quality Carl Zeiss® Vario-Sonnar Lens

The Carl Zeiss® lens has an advanced optical multi-layered coating offering less glare and flare with increased contrast for improved detail and clarity.

10X Optical/120X Precision Digital Zoom

The Carl Zeiss® optical zoom brings the action close up from far away. In addition, precision digital zoom interpolation technology means that extreme digital zooming is cleaner, with less distortion than previous types of digital zoom.

► Digital Still Memory Mode with Memory Stick® Media



Digital Still Memory Mode captures digital still images at 640 x 480 resolution, directly onto Memory Stick® media for easy transfer to PCs for email, printing or sharing with family and friends.

► MPEG Movie AD Mode



MPEG Movie AD captures MPEG1 compressed video and audio directly to Memory Stick media. Select from four modes Light, Standard, Fine, and Super Fine. Record small MPEG Movies with video and audio which are ideal for email to family and friends via the internet.

► USB Interface



USB Interface provides an easy way to connect MICROMV Handycam camcorders to computers for fast transfer of digital still images and MPEG movies.

► Progressive Shutter System

Mechanical shutter system that provides Progressive Scan performance while utilizing an interlaced scanning system. Digital still images will be sharp and clear with excellent definition.

2.5" Precision SwivelScreen™, Hybrid LCD Display (211K)

The 211,000 pixel LCD provides excellent viewing clarity with improved resolution. The Hybrid system consist of a transmissive LCD combined with a reflective LCD. By turning off the LCD backlight, it will capture more ambient light virtually eliminating LCD "wash-out". Images will be visible in the LCD even in the most challenging lighting conditions.

Precision Color Viewfinder (180K)

Increased pixel count provides more detail and clarity of video subjects.

Super SteadyShot® Picture Stabilization



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

i.LINK®* MICROMV Interface (IEEE 1394)



Allows high speed bi-directional digital communication between two devices equipped with a MICROMV IEEE 1394 interface, including PCs and other MICROMV Handycam camcorders.

Cassette Memory

Each MICROMV cassette comes equipped with a built-in 64KB Memory Chip that stores Custom Titles, valuable cassette information such as cassette ID and usage dates, and thumbnail image information from the beginning of a recorded video scene. Thumbnail images allow for easy access to recorded scenes.

Multi-Picture Search

Exclusive to MICROMV is the ability to provide thumbnail images of all recorded scenes, allowing quick and easy access to your favorite video memories.

► STEP-UP FEATURE

ADDITIONAL FEATURES

InfoLithium® Battery with AccuPower™ Meter System	White Balance
Memory Mix Modes	16:9 Wide Mode
Preset Exposure	8 Picture Effects
	6 Digital Effects
	8MB Memory Stick Media

SPECIFICATIONS

Imaging Device: 1/6" 680K Gross Pixels, Advanced HAD™ CCD

Video Actual: 340K Pixels

Still Actual: 340K Pixels

F: 1.7-2.3

Focal Distance: 2.3 – 23mm

35mm Conversion: 44 – 440mm (Camera Mode)
44 – 440mm (Memory Mode)

Filter Diameter: 30mm

Lens Type: Carl Zeiss® Vario-Sonnar

Optical Zoom: 10X

Digital Zoom: 120X

Focusing: Full Range Auto/Manual (Menu)

Minimum Illumination: 7 Lux

Shutter Speed: Auto, 1/4 - 1/750 (Program AE Mode)

Memory Mode: Yes, JPEG (640 x 480)

MPEG AD Movie Mode: Yes, Light (144 x 96), Standard (144 x 96),
Fine (352 x 240), Super Fine (352 x 240)

LCD: 2.5" Precision SwivelScreen™ Hybrid Color LCD, 211K

Viewfinder: Precision Color (180K Pixels)

Accessory Shoe: No

Video Input/Output: Yes/Yes, Composite (Special), S-Video (Special)

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

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

USB: Yes

Headphone Jack: No

Mic-Input: No

White Balance: Auto, Indoor, Outdoor, Hold

Exposure: Auto, Manual Preset (24 Steps)

Power Consumption (VF/LCD/VF+LCD): 3.5W/4.2W/4.5W

Software OS Compatibility: MovieShaker™ 3.1, Microsoft®

Windows® 2000, Me, XP (Digital Still Images/MPEG2 Movies);

MGI PhotoSuite® v8.01, Microsoft® Windows® 2000, Me, XP (Digital
Still Images);

MGI VideoWave® III SE, Microsoft® Windows® 2000, Me, XP,
(MPEG1 Movies);

MGI PhotoSuite® SE v1.1, Macintosh® 7.6.1-9.0 (Digital Still Images)

Dimensions (WHD): 1 7/8 x 4 x 3 1/8" (47 x 103 x 80mm)

Weight: 12 oz (367g) with battery

Supplied Accessories: BTA-NW1 Bluetooth Adapter, RMT-817

Wireless Remote Commander® Remote, AC-L20 Power
Adapter, NP-FF50 InfoLithium Rechargeable Battery,
2 AA Batteries, USB Cable, 8MB Memory Stick Media,
A/V Cable, MGR-60 MICROMV Cassette, MGR-CLD Tape
Head Cleaner, Lens Cap, Wrist Strap

worry FREE BATTERY LIFE

Battery* (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FF50	80/65/60 min	65/80 min
NP-FF70	170/140/130 min	135/165 min

*Results may vary



MEMORY MODE



Memory Stick Media

640 x 480	Fine	Standard
4MB	39	58
8MB	80	120
16MB	160	240
32MB	325	485
64MB	650	980
128MB	1310	1970



MPEG MOVIE AD MODE (Approximate Times)

Memory Stick Media Image Size Frame Rate	Light 144 x 96 10 fps	Standard 144 x 96 10 fps	Fine 352 x 240 30 fps	Super Fine 352 x 240 30 fps
4MB	2 min	1 min	35 sec	20 sec
8MB	5 min	2 min	1 min	45 sec
16MB	10 min	5 min	2 min	1 min
32MB	20 min	10 min	5 min	3 min
64MB	41 min	20 min	10 min	6 min
128MB	82 min	41 min	20 min	13 min

OPTIONAL ACCESSORIES

MGR-60 MicroMV Cassette	VCL-R2030S Telephoto Lens
NP-FF50/FF70 InfoLithium Battery	VCL-0630S Wide Angle Lens
MSA-8A/16A/32A/64A/128A Memory Stick Media	VF-30CPKS Polarizing Filter Kit
MSAC-FD2MA Memory Stick Floppy Disk Adapter	VCT-610 Light Weight Tripod
MSAC-PC2 Memory Stick PC Card Adapter	VMC-IL4415 i.LINK 4 Pin/4 Pin Digital Video Cable
MSAC-US5 Memory Stick Optical Mouse	VMC-IL4615 i.LINK 4 Pin/6 Pin Digital Video Cable
MSAC-A8 Memory Stick Holder	DPP-SV55 Digital Photo Printer
	DPP-SV77 Digital Photo Printer with LCD

* 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.

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SONY

Sony Electronics Inc.
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MICROMV™

	DCR-IP5	DCR-IP7BT
SPPG	\$1,299	\$1,699
A/V Performance		
Video Recording System	MICROMV/MPEG2	MICROMV/MPEG2
Video Playback System	MICROMV/MPEG2	MICROMV/MPEG2
Audio Recording System	MPEG1 Audio Layer 2	MPEG1 Audio Layer 2
Audio Playback System	MPEG1 Audio Layer 2	MPEG1 Audio Layer 2
CCD Imaging Device (gross pixels)	1/6" 680K	1/6" 680K
Filter Diameter	30mm	30mm
Carl Zeiss Lens	Yes	Yes
Memory Mode (Digital Still Camera Function)	N/A	Yes
Memory Stick Digital Media (Supplied)	N/A	8MB
Progressive Shutter System	N/A	Yes
Super NightShot Infrared System	N/A	N/A
Optical Zoom Lens (variable speed)	10X	10X
Digital Zoom	120X	120X
SteadyShot Picture Stabilization	Yes (Super)	Yes (Super)
Minimum Illumination	7 lux	7 Lux
Shutter Speed	1/4-1/750	1/4-1/750
Power Management		
Stamina Battery Life	Up To 2.5 Hours	Up To 2.5 Hours
AccuPower Battery Meter	Yes	Yes
Convenience		
SwivelScreen LCD Monitor (diagonal)	2.5"	2.5"
Viewfinder	180k Precision Color	180k Precision Color
i.LINK MICROMV Interface (IEEE1394)	Yes	Yes
USB Interface	N/A	Yes
Control-L (LANC) Edit interface	N/A	N/A
Analog Audio/Video Inputs	Yes/Yes (Special)	Yes/Yes (Special)
A/D Conversion w/Pass Through	N/A	N/A
Built-In Speaker	Yes	Yes
Edit Search	Multi Scene	Multi Scene
World Time Clock	Yes	Yes
Intelligent Accessory Shoe	N/A	N/A
Remote Control	RMT-818	RMT-817
Dimensions (W x H x D)	1 7/8 x 4 x 3 1/8" 47mm x 103mm x 80mm	1 7/8 x 4 x 3 1/8" 47mm x 103mm x 80mm
Weight (w/o tape and battery)	10 oz (310g)	10 oz (310g)
Special Features		
Memory Mix	N/A	Yes
Playback Zoom	N/A	N/A
Picture Effects	8 Modes	8 Modes
Digital Picture Effects	6 Modes	6 Modes
USB Streaming	N/A	N/A
Print Image Matching (PIM)	N/A	N/A
Audio/Video Digital Fader	4 Modes	4 Modes
Preset Titler	N/A	Yes
16:9 Recording	Yes	Yes
Digital Photo Mode	Yes (Tape)	Yes (Tape/MS)
MPEG AD Movie Mode	N/A	Yes
BlueTooth	N/A	Yes
Touch Screen	N/A	N/A
Manual Controls		
Program Auto Exposure	7 Modes	7 Modes
Manual Focus	Yes GUI	Yes GUI
Manual Exposure	Yes GUI	Yes GUI

FEATURED DIGITAL IMAGING ACCESSORIES

Deluxe Soft Carrying Case

LCS-VA3

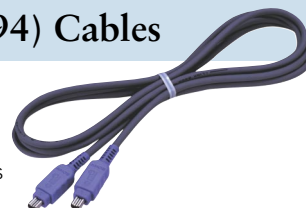
- Compact, easy-to-carry shoulder bag
- Attractive black simulated leather and extra padding protect your camera
- ID card holder, operating manual holder
- False bottom for extra protection, extra storage



i.LINK® (IEEE-1394) Cables

VMC-IL4415, 4435, 4615

- Connects digital camcorders to PC and other peripherals
- Cables come in 5' to 11' lengths
- 4 pin to 4 pin or 4 pin to 6 pin available



Super Quick Charger

AC-SQ-950D

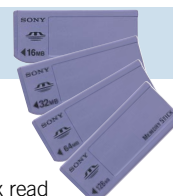
- Space for two M and/or QM series InfoLithium batteries
- With QM series batteries charge up to 70% faster than previous models
- Functions as an AC/DC charger with supplied cables
- Powers all cameras designed for AC-L10 power adapters



Memory Stick® Media

MSA-128A, 64A, 32A, 16A

- Ultra small thin design
- 10 pin connector for high reliability
- 1.5 MB/sec max write speed/2.5 MB/sec max read
- Up to 128 MB of storage capacity



Video Light/ Flash Combo

HVL-FDH4

- Flash for still pictures, video light for moving pictures
- Automatic functionality with Intelligent Accessory Shoe
- Powered by camcorder, no separate battery needed
- Twice the flash output of HVL-FDH3 (previous model)
- Half the size of HVL-FDH3 (previous model)



Filter Kits

VF-37CPKS

- 4 layer CPK Technology Polarizing Kit
- Designed for 37mm diameter filter ring
- Suppresses unwanted reflections off of glass and water
- Protects camera lens from dust and streaks



Remote Control Tripods

VCT-D680RM, D580RM, D480RM

- Remote operation of camera from tripod grip
- Remote zoom in/out, stop, start, lock and standby
- Easy height adjustment with elevator mechanism
- Carrying case included
- Quick release mounting shoe



InfoLithium® Batteries

NP-F550, NP-QM71, NP-FF70

- L, QM and FF series high capacity InfoLithium batteries
- No "memory effect"
- AccuPower™ meter system displays remaining battery life in minutes
- Up to 15 hours recording time on select models with select cameras



High Grade Telephoto Lenses

VCL-HG0737X

- High grade lenses deliver 2x the edge detail ensuring optimum image quality
- Broaden your field of view
- .07x wide angle convertor for 37mm lenses
- Aluminum construction



VCL-HG2037X

- 2x telephoto convertor for Sony 37mm lenses
- Increase your telephoto view
- Helps make distant subjects appear closer
- Lens design, 3 groups, 4 lenses
- Aluminum construction

Memory Stick® Reader/Writer Optical Mouse

MSAC-US5

- Reads and writes Memory Stick® media to a USB port
- Optical mouse functionality
- 12 MB/sec maximum transfer rate
- Compatible with Windows XP, Home/XP, Pro/98/98SE/2000, Pro/Me and MAC OS 8.5.1/8.6/9.0/9.1/Mac OS X



Handycam Camcorder Accessories	Analog & Digital8								Mini DV								MICROMV	
	CCD-TRV108	CCD-TRV308	CCD-TRV608	DCR-TRV140	DCR-TRV240	DCR-TRV340	DCR-TRV740	DCR-TRV840	DCR-TRV18	DCR-TRV25	DCR-TRV27	DCR-PC101	DCR-TRV50	DCR-PC1208T	DCR-TRV950	DCR-VX2000	DCR-IP5	DCR-IP7BT
Battery Packs																		
NP-FM50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
NP-QM71	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
NP-QM91	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
NP-FF50/70																	•	•
NP-F960																•		
NP-F750																•		
NP-F550																•		
Battery Chargers																		
AC-SQ950D	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BC-VM50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
DCC-L50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
AC-VF50																	•	•
AC-V700A																•		
BC-V615																•		
BC-V500																•		
Lenses & Filters²																		
VCL-0630S									•	•	•	•					•	•
VCL-R2030S									•	•	•	•					•	•
VCL-HB0730									•	•	•	•					•	•
VCL-HG2030									•	•	•	•					•	•
VF-30CPKS									•	•	•	•					•	•
VCL-0637H	•	•	•	•	•	•	•	•					•	•	•			
VCL-R2037	•	•	•	•	•	•	•	•					•	•	•			
VCL-HG0737X	•	•	•	•	•	•	•	•					•	•	•			
VCL-HG2037X	•	•	•	•	•	•	•	•					•	•	•			
VF-R37K	•	•	•	•	•	•	•	•					•	•	•			
VF-37CPKS	•	•	•	•	•	•	•	•					•	•	•			
VCL-HG0758																•		
VCL-HG1758																•		
VF-58CPKS																•		
Microphones & Lights																		
HVL-IRM	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
HVL-IRH2								•	•	•	•		•	•				
HVL-S3D								•	•	•	•	•	•	•	•	•		
HVL-20DM								•	•	•	•	•	•	•	•	•		
HVL-FDH4					•	•	•	•	•	•	•	•	•	•	•	•		
HVL-FH1100					•	•	•	•	•	•	•	•	•	•	•	•		
ECM-HS1					•	•	•	•	•	•	•	•	•	•	•	•		
VCT-S30L	•	•	•	•					•	•	•	•	•	•	•	•		
Playback Options																		
RFU-95UCX	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
i.LINK[®] (IEEE 1394) Connectivity¹																		
VMC-IL4435				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
VMC-IL4415				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
VMC-IL4615				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Memory Stick Digital Media																		
MSA-16A/32A/64A/128A					•	•	•	•	•	•	•	•	•	•	•	•		•
MSAC-PC2					•	•	•	•	•	•	•	•	•	•	•	•		•
MSAC-US5					•	•	•	•	•	•	•	•	•	•	•	•		•
MSAC-FD2MA					•	•	•	•	•	•	•	•	•	•	•	•		•
Kits and Cases																		
LCS-VA3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•
LCM-TRVY									•	•	•		•					
LCM-PCY2												•						
LCS-IPX																	•	•
LCM-TRVX									•	•	•		•		•			
LCM-PCA														•				
LCH-TRV950															•			
LCS-VX2000																•		
Camcorder Printing																		
PVP-MSH					•	•	•	•	•	•	•		•	•	•			
CPPM-NR40					•	•	•	•	•	•	•		•	•	•			
CPPM-SC40					•	•	•	•	•	•	•		•	•	•			

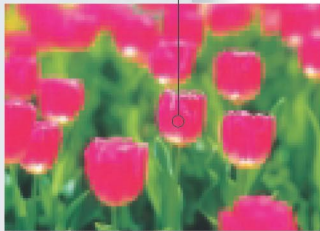
1. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.

2. Use of some lenses and filters may result in a slight optical anomaly when in the wide angle or teleconversion modes and may also obstruct the camera's flash.

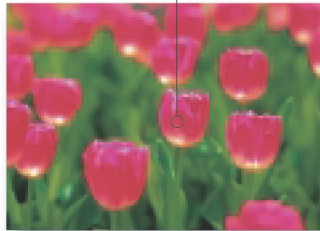
The Advantages of Sony Dye Sublimation Printing Technology and Sony Digital Photography Paper

Brilliant Color Reproduction

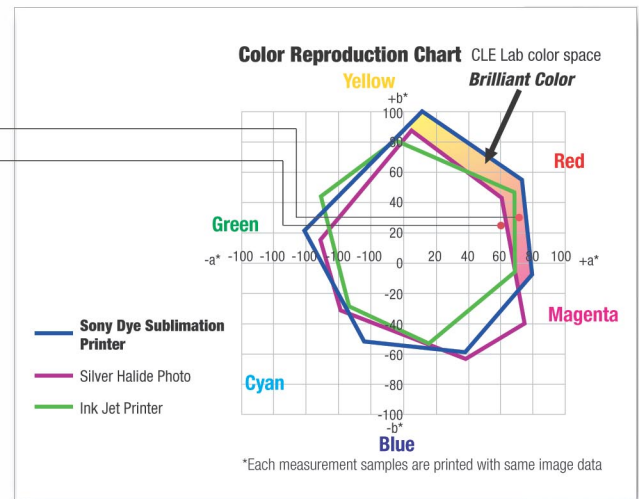
Dye sublimation printing technology features a wide range of color reproduction, thus Sony dye sublimation printers produce brilliant and clear color printout.



Sony Dye Sublimation Printing
(with lamination)



Silver Halide Photo



Long-lasting Picture Quality

When stored in a photo album for approx. 100 years, the print's colors will fade less than 30 %.

As shown in the example on the right, Sony Digital Photography Papers preserve their picture quality nearly 100 years.

- Tested in a high temperature and high humidity environment by using accelerated testing equipment.



Original

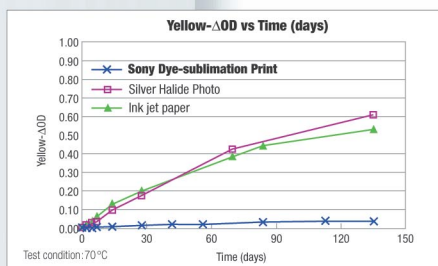


Sony Dye Sublimation Printing
Approximately 100 years later

Non Yellowing

Sony Digital Printing Papers keep the original color balance, compared to other printing methods.

- Tested in a high temperature and high humidity environment by using accelerated testing equipment.



Sony Dye Sublimation Printing



Silver Halide Photo



Ink Jet

DPP-SV55

Digital Photo Printer



FEATURES

Snapshot Prints from Your Digital Pictures

Produce beautiful high quality prints in the convenience of your own home. The DPP-SV55 makes it simple, easy and cost-effective.

Print Images in Two Sizes

The DPP-SV55 can print either borderless 4" x 6" post card size prints or 3 1/2" x 4" economical size.

PC-Free Direct Printing

Print images from Memory Stick® and other compatible media without having to connect to a computer.

3.8 Mega Pixel High Resolution Photo Quality

The DPP-SV55 photo printer can print images with up to 16.7 million colors at a 403 x 403 dpi resolution providing outstanding print quality.

Dye-Sublimation Printing (403 dpi, 16.7 Million Colors)

Dye-sublimation technology uses layers of color-dye to create continuous tone images with color richness that rivals traditional photo prints.

High Speed Printing

Sony's new high sensitivity media results in printing times that are much quicker than other dye-sub or ink jet printers. Print a four by six inch 3.8 mega pixel image in about 90 seconds. 3 1/2" x 4" size prints are even faster.

Multiple Frame or Index Printing

Choose to print 1, 2, 4 or 9 images on a single sheet of paper. Images can be printed as multiples of the same image or a combination of different images.

Image Optimization Functions

Image Optimization functions help improve picture quality including:

- Image Enlargement/Reduction/ Movement Image Rotation in 90-degree increments and 180-degree rotation

- Image Color Correction Effects: Hue, chrominance, brightness and sharpness.

Super Coat 2™ Protective Lamination

Super Coat 2™, a unique Sony Laminate, is applied in either matte or glossy finish during the printing process, protecting photos from color-shift and fading. Pictures produced with the DPP-SV55 have similar picture permanence to traditional film-based photo processing.

Easy to Use Interface

Core printer functions display on TV screen via video output for ease of use and improved functionality. The on-screen Graphical Interface menu makes system control easy.

PC/Macintosh® Compatible via USB

For added use and function, the printer can be connected to both PC and Macintosh® computers by using the built-in USB connection. Printer driver software is included for pre-installed Windows® 98/98SE and Macintosh® OS 8.5.1 and later.

Compact Size:

9 1/2" x 2 13/16" x 10 1/2" (W x H x D)

Just 9 1/2" x 2 13/16" x 10 1/2" (W x H x D), the DPP-SV55's small size fits easily within your lifestyle. Whether next to your TV, or near the PC, the DPP-SV55 makes it easy to print your digital pictures.

Paper Starter Pack

The DPP-SV55 is ready to go out of the box. Included are 10 sheets of the Super Coat 2™ media and a printer ribbon.

Memory Stick® Media and Flash Media Card Reader

Read and write to compatible flash media from your PC via the built-in USB connection making it easy to manage your image files on your PC.

Auto Feeder Tray

Print up to 30 images in one session, without having to feed paper into the printer one sheet at a time. The supplied auto-feed tray will hold two different sizes of paper (4" x 6" or 3" x 5") for simple, quick and quiet printing.

Slide Show Mode

Connect the printer to a TV using the video output, to show a personal slideshow of your favorite images.

SPECIFICATIONS

Printing System: Dye Sublimation

Printing Size: Large Size 4" x 6"
Small Size 3 1/2" x 4"

Gradations: 8-bit per color-C/M/Y/K (Approximately 16.7 Million Colors)

Printing Time: Approximately 90 seconds (4" x 6")
Approximately 60 seconds (3 1/2" x 4")

Video Output: Composite Video

Input/Output Connections: Memory Stick® Media Slot
PC Card Type II Slot: Smart Media*
or Compact Flash*
(*w/PCM Type II Adapter Card)

USB: (Ver 1.1) Connection for PC

Media Cards: Memory Stick®/PCMCIA/PCMCIA ATA

Format: JPEG/TIFF/BMP

Paper Size: Larger Size: 4" x 6 13/16" (101.6 x 174mm)
Small Size: 3 9/16" x 4" (90 x 101.6mm)

Power Requirements: 110 - 120 Volts AC

Supplied Software: Printer Driver Software for Windows® 98,
pre-installed IBM PC/AT and Macintosh®
OS 8.51 and later

Dimensions (WHD): 9 1/2" x 2 13/16" x 10 1/2" (242 x 72 x 267mm)

Weight: 4 lbs 14 oz (2.2kg)

Supplied Accessories: Paper Tray, Power Cord, Video Cable,
Sample Printing Pack, CD-ROM Printer
Driver Software

OPTIONAL ACCESSORIES

SVM-25LS Postcard Size Printer Pack (25 prints)

SVM-25LW Postcard Size Sticker Pack (25 prints)

SVM-30SS Small Size Photo Paper (30 prints)

SVM- 30SW Small Size Stickers (30 prints)

SVM-30SW09 Small Size 9 Split Stickers (30 prints)

DIGITAL PRINT MEDIA

SVM-25LS Print Pack

- 4" x 6" Print Paper with Snap-Off Edges for Bordered or Borderless Prints
- Super Coat 2™ Protective Lamination
- 25 Sheets of Paper and Print Ribbon



SVM-25LW Sticker Print Pack

- 4" x 6" Print Paper with Adhesive Backing
- Super Coat 2™ Protective Lamination
- 25 Sheets of Paper and Print Ribbon



SVM-30SS Compact Print Pack

- 3 1/2" x 4" Compact Print Paper for Bordered Prints
- Super Coat 2™ Protective Lamination
- 30 Sheets of Paper and Print Ribbon



SVM-30SW Compact Sticker Print Pack

- 3 1/2" x 4" Compact Print Paper with Adhesive Backing
- Super Coat 2™ Protective Lamination
- 30 Sheets of Paper and Print Ribbon



SVM-30SW09 9-Print Sticker Print Pack

- 3 1/2" x 4" Compact Print Paper with Adhesive Backing
- 9 Sticker Die-Cut for 9-Print per Sheet Mini-Prints
- Super Coat 2™ Protective Lamination
- 30 Sheets of Paper and Print Ribbon



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DPP-SV77

Digital Photo Printer



FEATURES

Snapshot Prints from Your Digital Pictures

Produce beautiful high quality prints in the convenience of your own home. The DPP-SV77 makes it simple, easy and cost-effective.

Print Images in Two Sizes

The DPP-SV77 can print either borderless 4" x 6" post card size prints or 3½" x 4" economical size.

Memory Stick® Media and Flash Media Card Reader

Read and write to compatible flash media from your PC via the built-in USB connection making it easy to manage your image files on your PC.

▶ 3.2" Touch Panel Color LCD

View your digital images on the large 3.2" built-in Color LCD. Use the supplied stylus with the Touch Panel LCD to control the printer's functions, add freehand drawings or even a signature to your prints for personalized prints.

PC-Free Direct Printing

Print images from Memory Stick® and other compatible media without having to connect to a computer.

3.8 Mega Pixel High Resolution Photo Quality

The DPP-SV77 photo printer can print images with up to 16.7 million colors at a 403 x 403 dpi resolution providing outstanding print quality.

Dye-Sublimation Printing (403 dpi, 16.7 Million Colors)

Dye-sublimation technology uses layers of color-dye to create continuous tone images with color richness that rivals traditional photo prints.

High Speed Printing

Sony's new high sensitivity media results in printing times that are much quicker than other dye-sub or ink jet printers. Print a four by six inch 3.8 mega pixel image in about 90 seconds. 3½" x 4" size prints are even faster.

Multiple Frame or Index Printing

Choose to print 1, 2, 4 or 9 images on a single sheet of paper. Images can be printed as multiples of the same image or a combination of different images.

Image Optimization Functions

Image Optimization functions help improve picture quality including:
-Image Enlargement/Reduction/
Movement Image Rotation in 90-degree increments and 180-degree rotation
-Image Color Correction Effects: Hue, chrominance, brightness and sharpness.

Super Coat 2™ Protective Lamination

Super Coat 2™, a unique Sony Laminate, is applied in either matte or glossy finish during the printing process, protecting photos from color-shift and fading. Pictures produced with the DPP-SV77 have similar picture permanence to traditional film-based photo processing.

Easy to Use Interface

Core printer functions display on TV screen via video output for ease of use and improved functionality. The on-screen Graphical Interface menu makes system control easy.

PC/Macintosh® Compatible via USB

For added use and function, the printer can be connected to both PC and Macintosh® computers by using the built-in USB connection. Printer driver software is included for pre-installed Windows® 98/98SE, ME, 2000 and Macintosh® OS 8.5.1 and later.

Compact Size:

9½" x 3½" x 10½" (W x H x D)

Just 9½" x 3½" x 10½" (WxHxD), the DPP-SV77's small size fits easily within your lifestyle. Whether next to your TV, or near the PC, the DPP-SV77 makes it easy to print your digital pictures.

Paper Starter Pack

The DPP-SV77 is ready to go out of the box. Included are 10 sheets of the Super Coat 2™ media and a printer ribbon.

Auto Feeder Tray

Print up to 30 images in one session, without having to feed paper into the printer one sheet at a time. The supplied auto-feed tray will hold two different sizes of paper (4" x 6" or 3" x 5") for simple, quick and quiet printing.

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Printing System: Dye Sublimation

Printing Size: Large Size 4" x 6"
Small Size 3 1/2" x 4"

Gradations: 8-bit per color-C/M/Y/K (Approximately 16.7 Million Colors)

Printing Time: Approximately 90 seconds (4" x 6")
Approximately 60 seconds (3 1/2" x 4")

Screen Size: 3.2" Color LCD with Touch Panel

Video Output: Composite Video

Input/Output Connections: Memory Stick® Media Slot
PC Card Type II Slot: Smart Media*
or Compact Flash*
(*w/PCM Type II Adapter Card)

USB: (Ver 1.1) Connection for PC

Media Cards: Memory Stick®/PCMCIA/PCMCIA ATA

Format: JPEG/TIFF/BMP

Paper Size: Large Size: 4" x 6 13/16" (101.6 x 174mm)
Small Size: 3 9/16" x 4" (90 x 101.6mm)

Power Requirements: 110 - 120 Volts AC

Supplied Software: Printer Driver Software for Windows® 98,
98SE, ME, 2000, pre-installed IBM PC/AT and
Macintosh® OS 8.51 and later

Dimensions (WHD): 9 1/2" x 3 1/2" x 10 1/2" (242 x 87 x 267mm)

Weight: 5 lbs 8 oz (2.5kg)

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Sample Printing Pack, CD-ROM Printer
Driver Software

OPTIONAL ACCESSORIES

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SVM-25LW Postcard Size Sticker Pack (25 prints)

SVM-30SS Small Size Photo Paper (30 prints)

SVM-30SW Small Size Stickers (30 prints)

SVM-30SW09 Small Size 9 Split Stickers (30 prints)

DIGITAL PRINT MEDIA

SVM-25LS Print Pack

- 4" x 6" Print Paper with Snap-Off Edges for Bordered or Borderless Prints
- Super Coat 2™ Protective Lamination
- 25 Sheets of Paper and Print Ribbon



SVM-25LW Sticker Print Pack

- 4" x 6" Print Paper with Adhesive Backing
- Super Coat 2™ Protective Lamination
- 25 Sheets of Paper and Print Ribbon



SVM-30SS Compact Print Pack

- 3 1/2" x 4" Compact Print Paper for Bordered Prints
- Super Coat 2™ Protective Lamination
- 30 Sheets of Paper and Print Ribbon



SVM-30SW Compact Sticker Print Pack

- 3 1/2" x 4" Compact Print Paper with Adhesive Backing
- Super Coat 2™ Protective Lamination
- 30 Sheets of Paper and Print Ribbon



SVM-30SW09 9-Print Sticker Print Pack

- 3 1/2" x 4" Compact Print Paper with Adhesive Backing
- 9 Sticker Die-Cut for 9-Print per Sheet Mini-Prints
- Super Coat 2™ Protective Lamination
- 30 Sheets of Paper and Print Ribbon



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DPP-SV88

Digital Photo Printer

Onboard CD-R/RW Drive
with Video Capture



FEATURES

Snapshot Prints from Your Digital Images

Produce beautiful high quality prints in the convenience of your own home. The DPP-SV88 makes it simple, easy and cost-effective.

Print Images in Two Sizes

The DPP-SV88 can print either borderless 4" x 6" post card size prints or the more economical 3 1/2" x 4".

Memory Stick® Media and Flash Media Card Reader/Writer

Access digital images from PC based Memory Stick or Flash Media reader

► CD-R/RW Drive

Copy digital image files from Flash Media cards to 7cm or 12cm CD-R/RW discs. 8 x 4 x 24 speed CD-R/RW drive with File Management and Archive functions.

PC-Free Direct Printing

Print images from Memory Stick® and other compatible media without having to connect to a computer. For photo editing or creative modes of operation, a TV or PC monitor is required.

3.8 Mega Pixel High Resolution Photo Quality

The DPP-SV88 photo printer can print images with up to 16.7 million colors at a 403 dpi resolution providing outstanding print quality.

Dye-Sublimation Printing (403 dpi, 16.7 Million Colors)

Dye-sublimation technology uses layers of color-dye to create continuous tone images with color richness that rivals traditional photo prints.

High Speed Printing

Sony's new high sensitivity media results in printing times that are much quicker than other dye-sub or ink jet printers. Print a four by six inch 3.8 mega pixel image in about 90 seconds, or print 3 1/2" x 4" in 60 seconds.

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Image Optimization Functions

Image Optimization functions help improve picture quality including:

- Image Enlargement/Reduction/Movement
- Image Rotation in 90-degree and 180-degree rotation increments.
- Image Color Correction Effects: hue, chrominance, brightness and sharpness.

Super Coat 2™ Protective Lamination

Super Coat 2™, a unique Sony Laminate, is applied in either matte or glossy finish during the printing process, protecting photos from color-shift, fading, and moisture damage. Pictures produced with the DPP-SV88 have superior picture permanence to traditional film-based photo processing or ink jet photos.

Easy to Use Interface

Core printer functions display on TV screen via video output for ease of use and improved functionality. The on-screen Graphical Interface menu makes system control easy.

PC/Macintosh® Compatible via USB

For added use and function, the printer can be connected to both PC and Macintosh® computers by using the built-in USB connection. Printer driver software is included for pre-installed Windows® 98/98SE/Me/2000/XP, Mac OS 8.5.1 and later.

Compact Size:

9 1/2" x 3 7/16" x 10 1/2" (W x H x D)

Just 9 1/2" x 3 7/16" x 10 1/2", the DPP-SV88's small size fits easily within your lifestyle. Whether next to your TV, or near the PC, the DPP-SV88 makes it easy to print your digital pictures.

Paper Starter Pack

The DPP-SV88 is ready to go out of the box. Included are 10 sheets of the Super Coat 2™ media, the tray and printer ribbon.

Auto Feeder Tray

Print up to 30 images in one session, without having to feed paper into the printer one sheet at a time. The supplied auto-feed tray will hold paper for simple, quick and quiet printing.

Slide Show Mode

Connect the printer to a TV using the video output, to show a personal slideshow of your favorite images.

Video Capture

Convenient video input port allows frame capture of composite and S-video feeds.

SPECIFICATIONS

Printing System: Dye Sublimation

Printing Size: Large Size 4" x 6"
Small Size 3 1/2" x 4"

Gradations: 8-bit per color—C/M/Y/K (Approximately 16.7 Million Colors)

Printing Time: Approximately 90 seconds

Video Output: Composite Video and S-Video

Video Input: Composite Video and S-Video

Input/Output Connections: Memory Stick® Media Slot
PC Card Type II Slot: Smart Media*
or Compact Flash*
7cm or 12cm CD-R/RW
(*w/PCM Type II Adapter Card)

USB: (Ver 1.1) Connection for PC

Media Cards: Memory Stick®/PCMCIA/PCMCIA ATA,
7cm or 12cm CD-R/RW

Format: JPEG/TIFF/BMP

Paper Size: Larger Size: 4" x 6 13/16" (101.6 x 174mm)
Smaller Size: 3 9/16" x 4" (90 x 101.6mm)

Power Requirements: 110 - 120 Volts AC

Supplied Software: Printer Driver Software for
Windows® 98/98SE/Me/2000/XP, and
Macintosh® OS 8.51 and later

Dimensions (WHD): 9 1/2" x 3 7/16" x 10 1/2" (241 x 87 x 267mm)

Weight: 6 lbs 10 oz (3.0kg) with paper tray

Supplied Accessories: Paper Tray, Remote Control, AC Cord,
Video Cable, and CD-ROM Printer Driver
Software

OPTIONAL ACCESSORIES

SVM-25LS Postcard Size (4" x 6") Printer Pack (25 prints)

SVM-25LW Postcard Size (4" x 6") Sticker Pack (25 prints)

SVM-30SS Small Size (3 1/2" x 4") Photo Paper (30 prints)

SVM-30SW Small Size (3 1/2" x 4") Stickers (30 prints)

SVM-30SW09 Small Size 9 Split Stickers (30 prints)

DIGITAL PRINT MEDIA

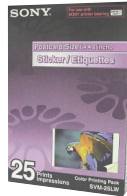
SVM-25LS Print Pack

- 4" x 6" Print Paper with Snap-Off Edges for Bordered or Borderless Prints
- Super Coat 2™ Protective Lamination
- 25 Sheets of Paper and Print Ribbon



SVM-25LW Sticker Print Pack

- 4" x 6" Print Paper with Adhesive Backing
- Super Coat 2™ Protective Lamination
- 25 Sheets of Paper and Print Ribbon



SVM-30SS Compact Print Pack

- 3 1/2" x 4" Compact Print Paper for Bordered Prints
- Super Coat 2™ Protective Lamination
- 30 Sheets of Paper and Print Ribbon



SVM-30SW Compact Sticker Print Pack

- 3 1/2" x 4" Compact Print Paper with Adhesive Backing
- Super Coat 2™ Protective Lamination
- 30 Sheets of Paper and Print Ribbon



SVM-30SW09 9-Print Sticker Print Pack

- 3 1/2" x 4" Compact Print Paper with Adhesive Backing
- 9 Sticker Die-Cut for 9-Print per Sheet Mini-Prints
- Super Coat 2™ Protective Lamination
- 30 Sheets of Paper and Print Ribbon



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DPP-MP1

Digital Photo Printer Palm Size



FEATURES

Snapshot Prints from Your Digital Images

Produce beautiful high quality prints from anywhere. The DPP-MP1 makes it simple, easy, and cost effective.

► Print Wallet Size Images

The DPP-MP1 can print borderless 2" x 3 1/4" prints.

PC Free Direct Printing

Print images from Memory Stick® without having to connect to a computer.

High Resolution Photo Quality

The DPP-MP1 photo printer can print images with up to 16.7 million colors at a 307 dots per inch (dpi) resolution providing outstanding print quality.

Dye-Sublimation Printing (307 dpi, 16.7 Million Colors)

Dye-Sublimation technology uses layers of color-dye to create continuous tone images with color richness that rivals traditional photo prints.

High Speed Printing

Sony's new high sensitivity media results in printing times that are much quicker than other dye-sub or ink jet printers. Print a 2" x 3 1/4" 3.8 mega pixel image in about 90 seconds.

Multiple Frame or Index Printing

Choose to print 1, 2, 4, or 8 images on a single sheet of paper.

Image Optimization Functions

Image Optimization functions help improve picture quality including: Sharpness, Brightness, and Fit (4:3 Aspect Ratio)

Super Coat 2™ Protective Lamination

Super Coat 2™, a unique Sony Laminate, is applied in either matte or glossy finish during the printing process, protecting photos from color-shift and fading. Pictures produced with the DPP-MP1 have superior picture permanence to traditional film-based photo processing or inkjet photos.

PC/Macintosh® Compatible via USB

For added use and function, the printer can be connected to both PC and Macintosh® computers by using the built-in USB connection. Printer driver software is included for pre-installed Windows® 98/98SE/Me/2000/XP, MAC OS 8.5.1 – 9.1.

► Compact Size:

4 3/8" x 1 1/2" x 2 5/8" (W x H x D)

Just 4 3/8" x 1 1/2" x 2 5/8", the DPP-MP1 is the smallest dye-sublimation printer to date and will fit in easy with an active lifestyle. Put the printer in your shirt pocket and take on vacation, to sporting events, business trips or even family outings. The DPP-MP1 makes it easy to print your digital pictures anywhere in the world.

Paper Starter Pack

The DPP-MP1 is ready to go out of the box. Included are 24 sheets of the Super Coat 2™ media, the tray and printer ribbon.

Memory Stick® Media and Flash Media Card Reader/Writer

Access digital images from PC based Memory Stick or Flash Media reader.

SPECIFICATIONS

Printing System: Dye Sublimation

Printing Size: 2" x 3 1/4"

Gradations: 8-bit per color – C/M/Y/K
(Approximately 16.7 Million Colors)

Printing Time: Approximately 90 seconds

Video Output: No

Input/Output Connections: Memory Stick® Media Slot

USB Terminal: (Ver. 1.1) Connection for PC

Media Cards: Memory Stick®

Format: JPEG/TIFF/BMP

Paper Size: 2" x 3 1/4" (50 x 81.25mm)

Power Requirements: 110 – 120 Volts AC, Optional Battery
Pack (MPA-BT1A)

Supplied Software: Printer driver software for Windows®
98/98SE/Me/2000/XP;
Macintosh® OS 8.5.1 – 9.1

Dimensions: 4 3/8" x 1 1/2" x 2 5/8" (W x H x D)

Weight: 10.8 oz. (with Paper Feeder Tray)

Supplied Accessories: 24 sheet feeder tray, AC Power Supply,
USB cable, CD-Rom Printer Driver
Software, 24 sheet print starter kit

DIGITAL PRINT MEDIA

SVM-24CS Print Pack

- 2" x 3 1/4" Print Paper with Snap-Off Edges
- 24 Sheets of Paper and Print Ribbon



OPTIONAL ACCESSORIES

MPA-BT1A Portable Power Kit (battery case, 4 rechargeable
NiMH 17mAH AA batteries, Quick Charger)

SONY

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Macintosh is a trademark of Apple Computer, Inc. All other trademarks are the property of their respective
owners. Features and specifications subject to change without notice.
Non-metric weights and measures are approximate.

Glossary

1.5 Mega Pixel CCD:

CCD (Charged Coupled Device) with 1,550,000 pixels providing 530 lines of horizontal resolution providing stunning detail and clarity, with exceptional video and still image performance. High quality still images are captured at 1360 x 1020 onto Memory Stick® media when in Memory Mode.

2 Position Neutral Density Filter:

Helps maintain highlight detail in bright sunlight.

3 CCD:

3 CCDs (Charged Coupled Devices), produces excellent image quality by separating color information to Red, Blue and Green. Colors will be more vibrant with minimal color “smear” and “bleed.”

58mm Aspherical Lens:

Achieves superb clarity, without the geometric distortion of large spherical lenses.

6 Digital Picture Effects:

Provide expanded creative options. The modes include: Old Movie, Luminance Key, Flash Motion, Still, Slow Shutter and Trail.

8mm:

Affordable video system that offers higher picture quality, far longer recording time and better physical protection of the tape than standard VHS-C.

12/16-Bit Audio Dubbing:

Enables you to add stereo music or narration without disturbing the original sound tracks by giving you the same outstanding sound quality as CDs.

14-Bit DXP (Digital Extended Processor):

Provides even greater dynamic range, preserving both highlight and shadow detail. With 16,384 levels of brightness, 14-bit DXP provides an increase of 400% over 12-bit systems to improve depth for more realistic digital still images.

16:9 Mode

Enables you to record and play back in the widescreen 16:9 aspect ratio, for compatibility with the new Digital Television (DTV) standard. 16:9 Anamorphic Widescreen Capability is ideal for shooting widescreen video productions.

A/D Conversion with Pass-Through:

Converts the analog signal into a digital format utilizing the analog inputs on the Handycam® camcorder in real time.

AccuPower™ System:

Exclusive Sony system that allows the Lithium-Ion battery pack to communicate with the camera to indicate the amount of power remaining in minutes, displayed in the viewfinder or LCD.

Advanced Color Viewfinder:

113k pixel, high resolution LCD and 1.5x magnifying lens provides a sharper, cleaner, full-color view of video subjects.

Advanced HAD™ CCD:

Hole Accumulation Diode CCD reduces noise in the video signal to improve signal-to-noise ratio by up to 6dB (2x better than a standard CCD). This is particularly effective when shooting in dark or low light situations.

Advanced 5 Language Titler:

With the Advanced 5 Language Titler you are able to display any of the preset titles built into the Handycam® camcorders memory: English, French, Portuguese, Spanish and Chinese. In addition, you can add two custom titles 22 characters long in multiple sizes and colors.

AFM Hi-Fi Mono:

Superior Hi-Fi audio quality using Audio Frequency Modulation (AFM) technology.

AFM Hi-Fi Stereo Sound:

Superior Hi-Fi audio quality using Audio Frequency Modulation (AFM) technology in stereo for greater realism.

Audio Video Digital Fader:

Fade to black, mosaic, bounce, monotone or stripe for creative scene transitions.

Auto Exposure:

Assures correct exposure of your subjects automatically.

Auto Focus:

Camera will automatically focus on subjects.

Beep Function:

Feature of camera that will give an audible “beep” signal each time a function is selected. Can be turned on or off in the menu.

Bluetooth:

Allows for sharing information through the internet without having to connect through the PC.

Built-In Light:

The Built-In Light uses a 3 watt lamp that brightens up your video when shooting in low light situations.

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

No need to add a light for digital photography, the flash is built-in. It engages automatically when shooting in low lighting situations. The Red-Eye Reduction system virtually eliminates the annoying red-eye effect.

Carl Zeiss® Vario Sonnar (T*):

Uses the most advanced multi-layered coating system in the world. Helps reduce unwanted camera lens reflections. T* adds extra coating which delivers vivid images, brilliance, true-to-life color saturation and perfect rendition of subtle tones.

CCD:

Stands for “Charged Coupled Device.” It is the imaging device made of light sensing pixels, which are used in the camera to capture images for video. Higher pixel counts usually mean better image and detail quality.

Color Bar Generator:

Gives better color representation using the 3 CCD cameras.

Control L (LANC) Jack:

Connector for editing interface; connects to Sony VCRs, Handycam® camcorders and editing controllers with a Control L jack, for synchronized, easy editing.

Data Code:

The Data Code consists of a variety of information: time code, date and time of recording, source, camera information and index ID points, which are encoded onto the Digital8® tape in a separate area of the recording.

Date/Time Recording:

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

Demo Mode:

In store use for showing features of camera.

Digital8®:

Provides digital picture and sound quality recorded onto 8mm or Hi8™ tapes, with the capability to record up to 520 lines of resolution along with 12-bit or 16 PCM digital stereo audio and is backward compatible with existing 8mm and Hi8 cassettes.

Digital Camera Signal Processing:

Advanced 10-bit DSP Sony technology automatically performs all internal processing digitally focusing, exposure control (both aperture size and gain control), and white balance control.

Digital Noise Reduction:

Reduces color noise by up to 20% for better picture quality on recordings.

Digital Photo Mode:

Allows you to capture a still image recorded to video tape while the audio continues recording for seven seconds, allowing you to provide narration for the still image.

Digital Picture Effects:

Gives you a variety of effects to change the look of your video during playback.

Digital Program Editing:

Allows the editing of video without any picture loss.

Digital Recording:

Records in a format allowing for easier editing with no deterioration.

Digital Still Camera Memory Mode:

Digital still camera function that allows you to capture high quality still images and/or MPEG movies directly to the Memory Stick® media.

Display:

The "display" button calls up important information about the camera, i.e., battery remaining, number of images etc., and displays it on the LCD or in the viewfinder.

Dual Speed Motor:

Digital8® camcorders feature a dual-speed motor with a new type of video head that allows playback of 8mm/Hi8™ Analog and Digital8 recordings.

DV:

Records outstanding digital picture and sound on super compact Mini DV cassettes. Offers up to 530 lines of horizontal resolution, with up to 3x the color bandwidth of VHS and significantly lower video noise.

Easy Dubbing:

Easy dubbing capability to your VCR through connection of supplied cables and infrared operation.

Edit Search Feature:

Allows for tape review in forward and reverse, without leaving "Camera" mode for quick, on-the-spot monitoring.

End Search:

Automatically advances the tape to the last frame recorded.

EZ Menu Setup:

Allows for the presetting of functions by way of an on screen display menu.

Full Range Auto Focus:

Fast, accurate, automatic focusing from macro close-up to infinity.

Headphone Jack:

Gives the ability to hook-up headphones to monitor the audio being recorded, or the audio while being played back.

Hi8™ Format:

Better horizontal resolution than terrestrial broadcast TV, up to 400 lines, by recording a higher bandwidth than standard 8mm video.

Horizontal Resolution:

The number of horizontal lines that a device can reproduce and still have the lines viewable. The more viewable horizontal lines, the sharper, clearer and better the video looks.

HyperPrecision CCD:

Up to 1,550,000 pixels allow the camera to capture more detail and superb sharpness at full zoom ratio, and achieve SteadyShot® picture stabilization without compromising picture quality.

i.LINK®* DV Interface (IEEE1394):

Digital interface that allows 2-way, pure digital communication between two DV cams and/or other DV related devices, such as capture boards, PCs, etc.

InfoLithium® Battery:

The InfoLithium Battery is a lithium-ion battery pack which can exchange data with compatible equipment about its battery consumption and time remaining.

Intelligent Accessory Shoe:

Another Sony exclusive, the Intelligent Accessory Shoe not only provides power to any of the Intelligent Accessories, such as the HVL-S3D 3-Watt Video Light, or the ECM-HS1 Zoom Mic, it also provides synchronized on/off operation and in the case of the Zoom Mic it actually changes the pick up pattern of the mic to match the zoom lens.

Intelligent Flash:

The camera notices the low light and automatically uses the flash on the camera.

JPEG:

Stands for "Joint Photographers Experts Group," and is a popular file format used for digital images, including images captured to Sony Digital Handycam® camcorders equipped with Memory Stick® media.

LCD Info Panel:

Displays camcorder functions at a glance for easy shooting and playback.

Lithium-Ion:

Type of rechargeable battery system that will not develop a memory, and can be recharged at any time.

LP Recording:

Record in Digital8® up to 90 minutes (50% longer) on a Hi8™ tape, or twice as long on analog Hi8™ recordings.

Lux:

The minimum amount of light needed to shoot video with viewable picture quality.

Manual Focus:

Allows for smooth “hands on” manual focusing adding more creative flexibility.

Macro Capability:

The ability of a camera to take very close up shots and still be sharply focused.

Manual Backlight Control Button:

Compensates for strong light behind subject.

Memory Stick® Media:

Small compact removable, which enables flexible storage of digital still images and quick, convenient transfer to compatible PCs, PC adapters and printers. They are currently available in 8, 16, 32, 64 and 128MB capacity.

Memory Stick® Reader:

Easy and convenient way to transfer digital still images stored on Memory Stick media via the standard USB port found on virtually all home PCs and notebook computers.

Memory Mix Effects:

Superimpose still images you have stored on Memory Stick® media over a moving picture. Select models include Camera Chroma Key (for moving video on a still background), Memory Chroma Key (for still pictures on a moving background) and Memory Luminance Key (for titles and graphics superimposed on moving video).

Microphone Jack:

Allows for the connection of an external microphone.

MICROMV:

The world's smallest video and audio recording format which records in MPEG2 encoding comparable to Mini DV.

Minimum Illumination (Lux):

Relative amount of light that will produce a viewable image.

MPEG1 Audio Layer2:

A very efficient compression technology that yields high quality stereo audio with a 48kHz sampling frequency at a very small file size.

MPEG Movie AD Mode:

Advanced MPEG Movie Mode, records MPEG1 compressed videos at up to 30 frames per second onto Memory Stick® Media.

MPEG Movie Mode:

Allows you to capture up to 15 seconds of video/audio at 320 x 240 resolution or 60 seconds at 160 x 112 resolution.

MPEG Movie EX (Extended) Mode:

Record MPEG video directly to Memory Stick® Digital Media to the capacity of the Memory Stick being used.

NightShot® Infrared System:

Allows you to record images up to 10 feet away in total darkness (0 Lux) using infrared technology. Images shot in total darkness appear as monochrome images. With the optional HVL-IRH2 or HVL-IRC NightShot Light, images up to 100 feet away can be captured.

Optical Zoom:

Optical zoom uses the glass lens to zoom in on your subject or pull back for wide shots, without any loss of resolution.

Optimum Recording Control:

Analyzes the condition of the video heads and the tape, and makes adjustments to maximize picture performance, and results in longer life for the video heads.

PCM Digital Stereo Audio:

DV and Digital8® record in 12-bit or 16-bit PCM (pulse code modulation) stereo audio. This is the same type of digital audio quality applied to the Compact Disc, which means the sound will be cleaner, more dynamic, and it has the capability to reproduce wider frequency response than other consumer analog formats.

Picture Effects:

There are up to 8 different modes depending on the model, to set the camera in, to change the effect on the picture; they are: Black & White, Sepia, Negative Art, Pastel, Solarization, Slim, Stretch and Mosaic.

Pixels:

Short for Picture Element, it makes up the display or images in the CCD. The larger the pixel count, the greater the detail and clarity of the display, or the image.

Playback Zoom:

Zoom in 5x closer to your videos during playback or in the playback pause mode.

Precision Color Viewfinder:

180K pixel, high resolution (530 lines) color viewfinder with 1.5x magnifying lens to provide outstanding image quality, ideal for manual focusing ability.

Precision Digital Zoom:

The power to zoom in incredibly close, significantly reducing distortion and mosaic texture experienced with other camcorders.

Print Image Matching (PIM):

Allows the camera to do all the work in setting color, brightness in a format that printers can read directly from the Memory Stick® media.

Program Auto Exposure:

Sony's Program AE system provides up to 7 auto exposure modes for a variety of shooting situations. Which include: Soft Portrait, Beach & Ski, Sports Lesson, Landscape, Spotlight, Sunset & Moon and Low Light mode.

Progressive Shutter System:

Provides Progressive Scan performance, while utilizing an interlaced scanning system. Still images will be sharp and clear with excellent definition.

Quick Record:

Recording starts instantly to help make sure shots are never missed.

Red-Eye Reduction:

Reduces the unwanted red-eye caused by the flash on cameras.

Remote Control:

Full-function wireless remote control that lets you access primary controls of the camcorder from a distance.

Self-Timer:

Set the timer on the camera so that it will wait several seconds before it takes the picture, allowing you to be in it.

Simultaneous Video and Still Record Mode:

Record a still image to the Memory Stick® media while recording video to the tape.

Stamina® Power Management:

Lets you record up to 15.5 full hours, on select models, with one optional (NP-FM91/QM91) battery.

SteadyShot® Picture Stabilization:

Uses motion sensors and HyperPrecision CCDs to detect camera movement, and minimizes hand shake without compromising picture quality.

Super NightShot and Color Slow Shutter Mode:

Shutter speed adjusts to a larger opening to allow more light to enter the CCD allowing for true color representation while filming in absolute darkness.

Super NightShot with Auto Slow Shutter:

Shutter speed automatically adjust between 1/15–1/4 seconds for a brighter picture when filming in dark situations.

SuperSteadyShot Picture Stabilization:

Similar to standard SteadyShot® Picture Stabilization but minimizes even higher frequency vibration up to 25Hz, such as vehicle shake, with no loss of image quality.

SwivelScreen™ LCD Display:

The color LCD monitor swivels 270 degrees for viewing at any angle, and even goes into the “mirror mode” where the subjects see themselves in the LCD and the operator sees them in the viewfinder.

Time Base Correction:

Reduces unwanted jitter for better picture quality.

USB:

Universal Serial Bus interface provides quick and easy transfer of digital still images and MPEG movies from camcorder to computer.

USB Streaming:

Conference “live” and “pre-recorded” video utilizing the dual purpose camcorder.

Video Editing:

Gives the capability to edit video by connecting to a computer via i.LINK.

Viewfinder Meters:

Conveniently located in the camcorder viewfinder.

White Balance:

This establishes the tint, or hue, of the picture by adjusting sensitivity to red and green light, and assures that white objects will appear white.

World Time Clock:

Quickly adjusts to any time zone.

Zebra Pattern:

Shown as diagonal stripes, use the Zebra Pattern as a guide for adjusting the exposure and shutter speed to achieve a properly exposed image.

Zoom:

Allows for zooming in on subjects or pull back for wide shots, (both optical and digital).

*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.

MEMORY STICK CAPACITY CHART

Digital Still*			
8 MB	(640 x 480)	(1152 x 864)	(1360 x 1020)
Super Fine**	40	12	8
Fine	80	25	17
Standard	120	37	25
16 MB	(640 x 480)	(1152 x 864)	(1360 x 1020)
Super Fine**	80	25	17
Fine	160	50	34
Standard	240	75	50
32 MB	(640 x 480)	(1152 x 864)	(1360 x 1020)
Super Fine**	160	50	35
Fine	325	100	69
Standard	485	150	100
64 MB	(640 x 480)	(1152 x 864)	(1360 x 1020)
Super Fine**	325	100	71
Fine	650	205	140
Standard	980	300	205
128 MB	(640 x 480)	(1152 x 864)	(1360 x 1020)
Super Fine**	650	205	140
Fine	1310	415	280
Standard	1970	600	415

* Capacities may vary

** Not available on all models

MPEG MOVIE*		
	Email Mode (160 x 112)	Presentation Mode (320 x 240)
8 MB	5 min 20 sec	1 min 20 sec
16 MB	10 min 40 sec	2 min 40 sec
32 MB	21 min 20 sec	5 min 20 sec
64 MB	42 min 40 sec	10 min 40 sec
128 MB	85 min 20 sec	21 min 20 sec
MPEG MOVIE EX*		
	Email Mode (160 x 112)	Presentation Mode (320 x 240)
8 MB	5 min 20 sec	1 min 20 sec
16 MB	10 min 40 sec	2 min 40 sec
32 MB	21 min 20 sec	5 min 20 sec
64 MB	42 min 40 sec	10 min 40 sec
128 MB	85 min 20 sec	21 min 20 sec
MPEG MOVIE AD*		
	Fine (30 fps) 352 x 240	Superfine (30 fps) 352 x 240
8 MB	1 min	45 sec
16 MB	2 min	1 min
32 MB	5 min	3 min
64 MB	10 min	6 min
128 MB	20 min	13 min
	Light (10 fps) (144 x 96) QSIF	Standard (10 fps) (144 x 96) QSIF
8 MB	2 min	5 min
16 MB	5 min	10 min
32 MB	10 min	20 min
64 MB	20 min	41 min
128 MB	41 min	82 min

[illegible]



2002 Handycam® Camcorder Pocket Guide

What's Hot For 2002

Available for the first time on a camcorder – **USB Streaming**. Use the new USB video streaming feature on select Handycam camcorders to broadcast live video or playback your previously recorded home videos when connected to the Internet using Microsoft® NetMeeting® software. It's like having your own web-based video conferencing system, and more!

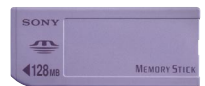


Up to **1.5 MEGA Pixel CCD** (gross), provides outstanding video quality up to 530 lines of horizontal resolution and the largest digital still image, up to 1360 x 1020 available on a consumer camcorder.



Also new for 2002 **MPEG Movie EX Mode** on select Digital8® and Mini DV Handycam camcorders. With MPEG Movie EX you have the ability to record up to 90 minutes of video with audio onto a 128MB Memory Stick media, with no conversion of file format. In addition, you can quickly convert your favorite video scene captured on tape, into a MPEG movie and store it onto the Memory Stick media. Then you'll have the ability to send the still images and MPEG Movies via email to family and friends.

Networking allows the ability of select Mini DV and MICROMV™ Handycam camcorders to connect to the Internet without a computer, virtually anywhere you travel. Allowing you to stay in touch with friends and family via email, upload and browse the Internet directly from the camcorder itself. How "hot" is that?



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CA4081

* Not available on DCR-TRV140

<ul style="list-style-type: none"> • High quality digital still images easily transferred to PCs 	<ul style="list-style-type: none"> • Up to 15.5 hours battery life • No more flashing "out of battery" indicator 	<ul style="list-style-type: none"> • Digital Transfer with virtually no generation loss • IEEE-1394 standard 	<ul style="list-style-type: none"> • Picture stabilization without image degradation • More accurate than most other systems
<ul style="list-style-type: none"> • NightShot™ infrared system • Shoot in total darkness • Auto Slow Shutter • dramatically improves brightness 	<ul style="list-style-type: none"> • Accupower™ meter displays time remaining in minutes • No memory effect 	<ul style="list-style-type: none"> • Capture MPEG1 videos with audio directly to Memory Stick™ Media • Multiple resolution modes 	<ul style="list-style-type: none"> • High quality digital video and audio recorded on 8mm/Hi8™ tapes • Backward compatible for playback of 8 mm and Hi8 analog recordings*

Hi8

Digital 8

						Mega Pixel Video/Still	Mega Pixel Video/Still
						1070K Pixels	1070K Pixels
						Progressive Shutter System	Progressive Shutter System
				MPEG Movie	MPEG Movie EX	MPEG Movie EX	MPEG Movie EX
				640 x 480	1152 x 864	1152 x 864	1152 x 864
				Memory Stick	Memory Stick	Memory Stick	Memory Stick
			Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs
			i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)
		USB Streaming	USB Streaming	USB Streaming	USB Streaming	USB Streaming	USB Streaming
	Video Light	Video Light	Video Light	Intelligent Shoe	Intelligent Shoe	Intelligent Shoe	Intelligent Shoe
	SteadyShot	SteadyShot	SteadyShot	SteadyShot	SteadyShot	Super SteadyShot	Super SteadyShot
Easy Dubbing	Easy Dubbing	Easy Dubbing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing
2.5" LCD	2.5" LCD	3.0" LCD	2.5" LCD	2.5" LCD	2.5" LCD	2.5" LCD	3.5" LCD
NightShot	NightShot	NightShot	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter
20X/460X Zoom	20X/460X Zoom	20X/560X Zoom	20X/560X Zoom	25X/700X Zoom	25X/700X Zoom	15X/420X Zoom	15X/420X Zoom
Up to 400 Lines of Horizontal Resolution	Up to 400 Lines of Horizontal Resolution	Up to 400 Lines of Horizontal Resolution	Up to 500 Lines of Horizontal Resolution	Up to 500 Lines of Horizontal Resolution	Up to 500 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution
Hi8	Hi8	Hi8	Digital8*	Digital8	Digital8	Digital8	Digital8
CCD-TRV108	CCD-TRV308	CCD-TRV608	DCR-TRV140	DCR-TRV240	DCR-TRV340	DCR-TRV740	DCR-TRV840
*Digital8 Playback and Record only							

MiniDV

						Network Capability Via Optional Modem	Network Capability Via Supplied Modem	Network Capability Via Optional Modem
	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still
680K Pixels	1070K Pixels	1070K Pixels	1070K Pixels	1550K Pixels	1550K Pixels	(3 CCD) 1070K Pixels	(3 CCD) 380K Pixels	(3 CCD) 380K Pixels
MPEG	MPEG EX	MPEG EX	MPEG EX	MPEG EX	MPEG	MPEG EX	N/A	N/A
640 x 480	1152 x 864	1152 x 864	1152 x 864	1360 x 1020	1360 x 1020	1152 x 864	640 x 480	640 x 480
Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick
Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Scan System
30mm Carl Zeiss Lens	30mm Carl Zeiss Lens	30mm Carl Zeiss Lens	30mm Carl Zeiss Lens	37mm Carl Zeiss Lens	30mm Carl Zeiss T* Lens	37mm Lens	58mm Aspherical Lens	58mm Aspherical Lens
Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs
i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)
Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing
USB Streaming	USB Streaming	USB Streaming	USB Streaming	USB Streaming	N/A	USB Streaming	N/A	N/A
Intelligent Accessory Shoe	Intelligent Accessory Shoe	Intelligent Accessory Shoe	Intelligent Accessory Shoe	Intelligent Accessory Shoe Pop Up Flash	Intelligent Accessory Shoe Pop Up Flash	Intelligent Accessory Shoe Pop Up Flash	Intelligent Accessory Shoe	Intelligent Accessory Shoe
Super SteadyShot	Super SteadyShot	Super SteadyShot	Super SteadyShot	Super SteadyShot	Super SteadyShot	Optical SteadyShot	Optical SteadyShot	Optical SteadyShot
Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot	Super NightShot & Color Slow Shutter	N/A	N/A
10X/120X ZOOM	10X/120X ZOOM	10X/120X ZOOM	10X/120X ZOOM	10X/120X ZOOM	10X/120X ZOOM	12X/150X ZOOM	12X/48X ZOOM	12X/48X ZOOM
2.5" LCD/CVF	2.5" LCD/CVF	3.5" LCD/CVF	2.5" Touch Panel LCD/CVF	3.5" Touch Panel LCD/CVF w/Stylus	2.5" LCD/CVF	3.5" Touch Panel LCD/CVF w/Stylus	2.5" LCD/CVF	2.5" LCD/CVF
Up to 500 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution
MiniDV	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV
DCR-TRV18	DCR-TRV25	DCR-TRV27	DCR-PC101	DCR-TRV50	DCR-PC120BT	DCR-TRV950	DCR-VX2000	DCR-VX2000

MICROMV

MEMORY STICK® CAPACITY CHART

(Results may vary)

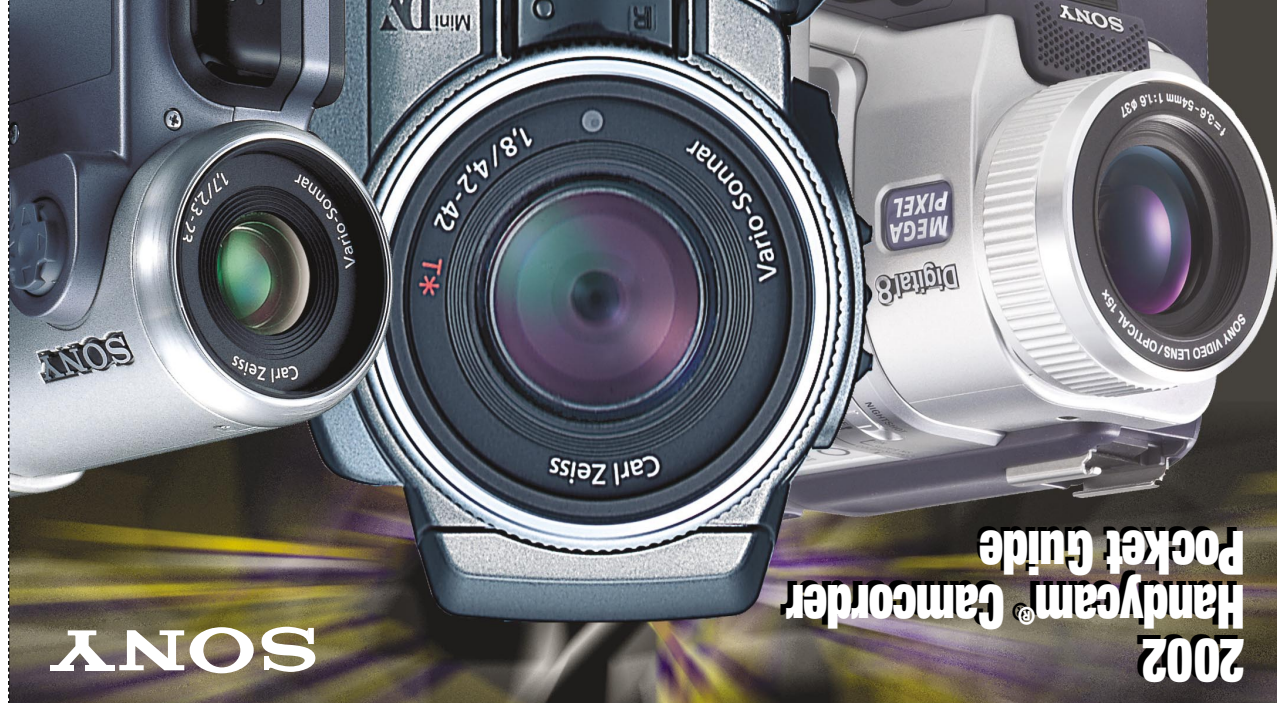
Digital Still		8MB	16MB	32MB	64MB	128MB
640 x 480	Super Fine*	40	80	160	325	650
	Fine	80	160	325	650	1310
	Standard	120	240	485	980	1970
1152 x 864	Super Fine*	12	25	51	100	205
	Fine	25	50	100	205	415
	Standard	37	74	150	300	600
1360 x 1020	Super Fine*	8	17	35	71	140
	Fine	17	35	71	140	280
	Standard	25	50	100	205	415
MPEG Movie Mode						
MPEG Movie EX Mode						
160 x 112		5 min 20 sec	10 min 40 sec	21 min 20 sec	42 min 40 sec	85 min 20 sec
	320 x 240	1 min 20 sec	2 min 40 sec	5 min 20 sec	10 min 40 sec	21 min 20 sec
MPEG Movie AD Mode						
144 x 96 (Light)		5 min	10 min	20 min	41 min	82 min
	144 x 96 (STD)	2 min	5 min	10 min	20 min	41 min
	352 x 240 (Fine)	1 min	2 min	5 min	10 min	20 min
	352 x 240 (Super Fine)	45 sec	1 min	3 min	6 min	13 min

* May not apply to all models

	Network Capability Via Supplied Modem
	MPEG Movie AD
	640 x 480
	Memory Stick
	Progressive Shutter System
30mm Carl Zeiss Lens	30mm Carl Zeiss Lens
Analog Inputs	Analog Inputs
i.LINK (MICROMV In/Out)	i.LINK (MICROMV In/Out)
Super SteadyShot	Super SteadyShot
10X/120X Zoom	10X/120X Zoom
2.5" Hybrid LCD	2.5" Hybrid LCD
Color View Finder	Color View Finder
Up to 500 Lines of Horizontal Resolution	Up to 500 Lines of Horizontal Resolution
MICROMV	MICROMV

DCR-IP5

DCR-IP7BT



2002 Handycam® Camcorder Pocket Guide

What's Hot For 2002

Available for the first time on a camcorder – **USB Streaming**. Use the new USB video streaming feature on select Handycam camcorders to broadcast live video or playback your previously recorded home videos when connected to the Internet using Microsoft® NetMeeting® software. It's like having your own web-based video conferencing system, and more!

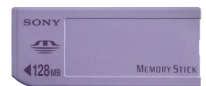


Up to **1.5 MEGA Pixel CCD** (gross), provides outstanding video quality up to 530 lines of horizontal resolution and the largest digital still image, up to 1360 x 1020 available on a consumer camcorder.



Also new for 2002 **MPEG Movie EX Mode** on select Digital8® and Mini DV Handycam camcorders. With MPEG Movie EX you have the ability to record up to 90 minutes of video with audio onto a 128MB Memory Stick media, with no conversion of file format. In addition, you can quickly convert your favorite video scene captured on tape, into a MPEG movie and store it onto the Memory Stick media. Then you'll have the ability to send the still images and MPEG Movies via email to family and friends.

Networking allows the ability of select Mini DV and MICROMV™ Handycam camcorders to connect to the Internet without a computer, virtually anywhere you travel. Allowing you to stay in touch with friends and family via email, upload and browse the Internet directly from the camcorder itself. How "hot" is that?



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* Not available on DCR-TRV140

<ul style="list-style-type: none"> • High quality digital still images easily transferred to PCs 	<ul style="list-style-type: none"> • Up to 15.5 hours battery life • No more flashing "out of battery" indicator 	<ul style="list-style-type: none"> • Digital Transfer with virtually no generation loss • IEEE-1394 standard 	<ul style="list-style-type: none"> • Picture stabilization without image degradation • More accurate than most other systems
<ul style="list-style-type: none"> • NightShot™ infrared system • Shoot in total darkness • Auto Slow Shutter • dramatically improves brightness 	<ul style="list-style-type: none"> • Accupower™ meter displays time remaining in minutes • No memory effect 	<ul style="list-style-type: none"> • Capture MPEG1 videos with audio directly to Memory Stick™ Media • Multiple resolution modes 	<ul style="list-style-type: none"> • High quality digital video and audio recorded on 8mm/Hi8™ tapes • Backward compatible for playback of 8 mm and Hi8 analog recordings*

Hi8

Digital 8

						Mega Pixel Video/Still	Mega Pixel Video/Still
						1070K Pixels	1070K Pixels
						Progressive Shutter System	Progressive Shutter System
				MPEG Movie	MPEG Movie EX	MPEG Movie EX	MPEG Movie EX
				640 x 480	1152 x 864	1152 x 864	1152 x 864
				Memory Stick	Memory Stick	Memory Stick	Memory Stick
			Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs
			i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)
		USB Streaming	USB Streaming	USB Streaming	USB Streaming	USB Streaming	USB Streaming
	Video Light	Video Light	Video Light	Intelligent Shoe	Intelligent Shoe	Intelligent Shoe	Intelligent Shoe
	SteadyShot	SteadyShot	SteadyShot	SteadyShot	SteadyShot	Super SteadyShot	Super SteadyShot
Easy Dubbing	Easy Dubbing	Easy Dubbing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing
2.5" LCD	2.5" LCD	3.0" LCD	2.5" LCD	2.5" LCD	2.5" LCD	2.5" LCD	3.5" LCD
NightShot	NightShot	NightShot	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter
20X/460X Zoom	20X/460X Zoom	20X/560X Zoom	20X/560X Zoom	25X/700X Zoom	25X/700X Zoom	15X/420X Zoom	15X/420X Zoom
Up to 400 Lines of Horizontal Resolution	Up to 400 Lines of Horizontal Resolution	Up to 400 Lines of Horizontal Resolution	Up to 500 Lines of Horizontal Resolution	Up to 500 Lines of Horizontal Resolution	Up to 500 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution
Hi8	Hi8	Hi8	Digital8*	Digital8	Digital8	Digital8	Digital8
CCD-TRV108	CCD-TRV308	CCD-TRV608	DCR-TRV140	DCR-TRV240	DCR-TRV340	DCR-TRV740	DCR-TRV840

*Digital8 Playback and Record only

MiniDV

						Network Capability Via Optional Modem	Network Capability Via Supplied Modem	Network Capability Via Optional Modem
	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still
680K Pixels	1070K Pixels	1070K Pixels	1070K Pixels	1550K Pixels	1550K Pixels	(3 CCD) 1070K Pixels	(3 CCD) 380K Pixels	(3 CCD) 380K Pixels
MPEG	MPEG EX	MPEG EX	MPEG EX	MPEG EX	MPEG	MPEG EX	N/A	N/A
640 x 480	1152 x 864	1152 x 864	1152 x 864	1360 x 1020	1360 x 1020	1152 x 864	640 x 480	640 x 480
Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick
Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Scan System
30mm Carl Zeiss Lens	30mm Carl Zeiss Lens	30mm Carl Zeiss Lens	30mm Carl Zeiss Lens	37mm Carl Zeiss Lens	37mm Carl Zeiss T* Lens	37mm Lens	58mm Aspherical Lens	58mm Aspherical Lens
Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs
i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)
Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing
USB Streaming	USB Streaming	USB Streaming	USB Streaming	USB Streaming	N/A	USB Streaming	N/A	N/A
Intelligent Accessory Shoe	Intelligent Accessory Shoe	Intelligent Accessory Shoe	Intelligent Accessory Shoe	Intelligent Accessory Shoe Pop Up Flash	Intelligent Accessory Shoe Pop Up Flash	Intelligent Accessory Shoe Pop Up Flash	Intelligent Accessory Shoe	Intelligent Accessory Shoe
Super SteadyShot	Super SteadyShot	Super SteadyShot	Super SteadyShot	Super SteadyShot	Super SteadyShot	Optical SteadyShot	Optical SteadyShot	Optical SteadyShot
Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot	Super NightShot & Color Slow Shutter	N/A	N/A
10X/120X ZOOM	10X/120X ZOOM	10X/120X ZOOM	10X/120X ZOOM	10X/120X ZOOM	10X/120X ZOOM	12X/150X ZOOM	12X/48X ZOOM	12X/48X ZOOM
2.5" LCD/CVF	2.5" LCD/CVF	3.5" LCD/CVF	2.5" Touch Panel LCD/CVF	3.5" Touch Panel LCD/CVF w/Stylus	2.5" LCD/CVF	3.5" Touch Panel LCD/CVF w/Stylus	2.5" LCD/CVF	2.5" LCD/CVF
Up to 500 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution
MiniDV	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV
DCR-TRV18	DCR-TRV25	DCR-TRV27	DCR-PC101	DCR-TRV50	DCR-PC120BT	DCR-TRV950	DCR-VX2000	DCR-VX2000

MICROMV

MEMORY STICK® CAPACITY CHART

(Results may vary)

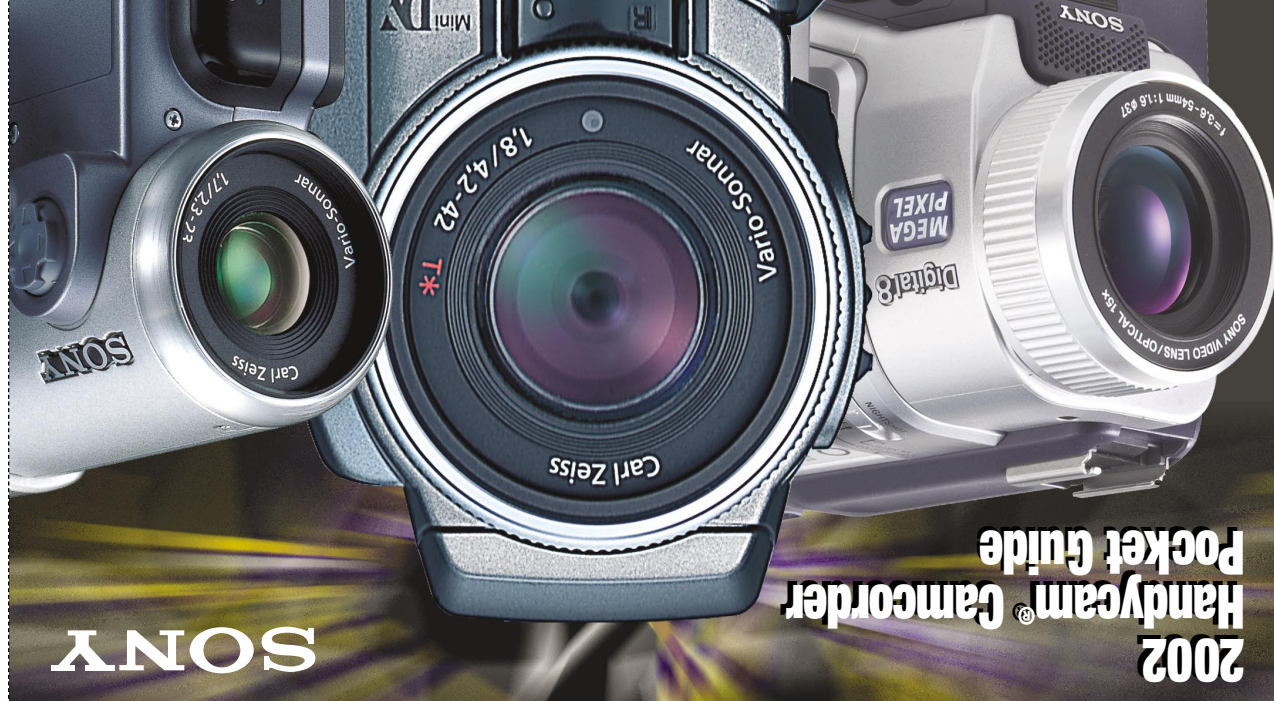
Digital Still		8MB	16MB	32MB	64MB	128MB
640 x 480	Super Fine*	40	80	160	325	650
	Fine	80	160	325	650	1310
	Standard	120	240	485	980	1970
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	Fine	25	50	100	205	415
	Standard	37	74	150	300	600
1360 x 1020	Super Fine*	8	17	35	71	140
	Fine	17	35	71	140	280
	Standard	25	50	100	205	415
MPEG Movie Mode						
MPEG Movie EX Mode						
	160 x 112	5 min 20 sec	10 min 40 sec	21 min 20 sec	42 min 40 sec	85 min 20 sec
	320 x 240	1 min 20 sec	2 min 40 sec	5 min 20 sec	10 min 40 sec	21 min 20 sec
MPEG Movie AD Mode						
	144 x 96 (Light)	5 min	10 min	20 min	41 min	82 min
	144 x 96 (STD)	2 min	5 min	10 min	20 min	41 min
	352 x 240 (Fine)	1 min	2 min	5 min	10 min	20 min
	352 x 240 (Super Fine)	45 sec	1 min	3 min	6 min	13 min

* May not apply to all models

	Network Capability Via Supplied Modem
	MPEG Movie AD
	640 x 480
	Memory Stick
	Progressive Shutter System
30mm Carl Zeiss Lens	30mm Carl Zeiss Lens
Analog Inputs	Analog Inputs
i.LINK (MICROMV In/Out)	i.LINK (MICROMV In/Out)
Super SteadyShot	Super SteadyShot
10X/120X Zoom	10X/120X Zoom
2.5" Hybrid LCD	2.5" Hybrid LCD
Color View Finder	Color View Finder
Up to 500 Lines of Horizontal Resolution	Up to 500 Lines of Horizontal Resolution
MICROMV	MICROMV

DCR-IP5

DCR-IP7BT



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* Not available on DCR-TRV140

<ul style="list-style-type: none"> • High quality digital still images easily transferred to PCs 	<ul style="list-style-type: none"> • Up to 15.5 hours battery life • No more flashing "out of battery" indicator 	<ul style="list-style-type: none"> • Digital Transfer with virtually no generation loss • IEEE-1394 standard 	<ul style="list-style-type: none"> • Picture stabilization without image degradation • More accurate than most other systems
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Hi8 Digital 8

						Mega Pixel Video/Still	Mega Pixel Video/Still
						1070K Pixels	1070K Pixels
						Progressive Shutter System	Progressive Shutter System
				MPEG Movie	MPEG Movie EX	MPEG Movie EX	MPEG Movie EX
				640 x 480	1152 x 864	1152 x 864	1152 x 864
				Memory Stick	Memory Stick	Memory Stick	Memory Stick
			Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs
			i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)
		USB Streaming	USB Streaming	USB Streaming	USB Streaming	USB Streaming	USB Streaming
	Video Light	Video Light	Video Light	Intelligent Shoe	Intelligent Shoe	Intelligent Shoe	Intelligent Shoe
	SteadyShot	SteadyShot	SteadyShot	SteadyShot	SteadyShot	Super SteadyShot	Super SteadyShot
Easy Dubbing	Easy Dubbing	Easy Dubbing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing
2.5" LCD	2.5" LCD	3.0" LCD	2.5" LCD	2.5" LCD	2.5" LCD	2.5" LCD	3.5" LCD
NightShot	NightShot	NightShot	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter
20X/460X Zoom	20X/460X Zoom	20X/560X Zoom	20X/560X Zoom	25X/700X Zoom	25X/700X Zoom	15X/420X Zoom	15X/420X Zoom
Up to 400 Lines of Horizontal Resolution	Up to 400 Lines of Horizontal Resolution	Up to 400 Lines of Horizontal Resolution	Up to 500 Lines of Horizontal Resolution	Up to 500 Lines of Horizontal Resolution	Up to 500 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution
Hi8	Hi8	Hi8	Digital8*	Digital8	Digital8	Digital8	Digital8
CCD-TRV108	CCD-TRV308	CCD-TRV608	DCR-TRV140	DCR-TRV240	DCR-TRV340	DCR-TRV740	DCR-TRV840

*Digital8 Playback and Record only

MiniDV

						Network Capability Via Optional Modem	Network Capability Via Supplied Modem	Network Capability Via Optional Modem
	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still	Mega Pixel Video/Still
680K Pixels	1070K Pixels	1070K Pixels	1070K Pixels	1550K Pixels	1550K Pixels	(3 CCD) 1070K Pixels	(3 CCD) 380K Pixels	(3 CCD) 380K Pixels
MPEG	MPEG EX	MPEG EX	MPEG EX	MPEG EX	MPEG	MPEG EX	N/A	N/A
640 x 480	1152 x 864	1152 x 864	1152 x 864	1360 x 1020	1360 x 1020	1152 x 864	640 x 480	640 x 480
Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick	Memory Stick
Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Shutter System	Progressive Scan System
30mm Carl Zeiss Lens	30mm Carl Zeiss Lens	30mm Carl Zeiss Lens	30mm Carl Zeiss Lens	37mm Carl Zeiss Lens	37mm Carl Zeiss T* Lens	37mm Lens	58mm Aspherical Lens	58mm Aspherical Lens
Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs	Analog Inputs
i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)	i.LINK (DV)
Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing	Digital Program Editing
USB Streaming	USB Streaming	USB Streaming	USB Streaming	USB Streaming	N/A	USB Streaming	N/A	N/A
Intelligent Accessory Shoe	Intelligent Accessory Shoe	Intelligent Accessory Shoe	Intelligent Accessory Shoe	Intelligent Accessory Shoe Pop Up Flash	Intelligent Accessory Shoe Pop Up Flash	Intelligent Accessory Shoe Pop Up Flash	Intelligent Accessory Shoe	Intelligent Accessory Shoe
Super SteadyShot	Super SteadyShot	Super SteadyShot	Super SteadyShot	Super SteadyShot	Super SteadyShot	Optical SteadyShot	Optical SteadyShot	Optical SteadyShot
Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot	Super NightShot & Color Slow Shutter	N/A	N/A
10X/120X ZOOM	10X/120X ZOOM	10X/120X ZOOM	10X/120X ZOOM	10X/120X ZOOM	10X/120X ZOOM	12X/150X ZOOM	12X/48X ZOOM	12X/48X ZOOM
2.5" LCD/CVF	2.5" LCD/CVF	3.5" LCD/CVF	2.5" Touch Panel LCD/CVF	3.5" Touch Panel LCD/CVF w/Stylus	2.5" LCD/CVF	3.5" Touch Panel LCD/CVF w/Stylus	2.5" LCD/CVF	2.5" LCD/CVF
Up to 500 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution	520 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution	530 Lines of Horizontal Resolution
MiniDV	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV
DCR-TRV18	DCR-TRV25	DCR-TRV27	DCR-PC101	DCR-TRV50	DCR-PC120BT	DCR-TRV950	DCR-VX2000	DCR-VX2000

MICROMV

MEMORY STICK® CAPACITY CHART

(Results may vary)

	Network Capability Via Supplied Modem
	MPEG Movie AD
	640 x 480
	Memory Stick
	Progressive Shutter System
30mm Carl Zeiss Lens	30mm Carl Zeiss Lens
Analog Inputs	Analog Inputs
i.LINK (MICROMV In/Out)	i.LINK (MICROMV In/Out)
Super SteadyShot	Super SteadyShot
10X/120X Zoom	10X/120X Zoom
2.5" Hybrid LCD	2.5" Hybrid LCD
Color View Finder	Color View Finder
Up to 500 Lines of Horizontal Resolution	Up to 500 Lines of Horizontal Resolution
MICROMV	MICROMV
DCR-IP5	DCR-IP7BT

Digital Still	8MB	16MB	32MB	64MB	128MB
640 x 480					
Super Fine*	40	80	160	325	650
Fine	80	160	325	650	1310
Standard	120	240	485	980	1970
1152 x 864					
Super Fine*	12	25	51	100	205
Fine	25	50	100	205	415
Standard	37	74	150	300	600
1360 x 1020					
Super Fine*	8	17	35	71	140
Fine	17	35	71	140	280
Standard	25	50	100	205	415
MPEG Movie Mode					
MPEG Movie EX Mode					
160 x 112	5 min 20 sec	10 min 40 sec	21 min 20 sec	42 min 40 sec	85 min 20 sec
320 x 240	1 min 20 sec	2 min 40 sec	5 min 20 sec	10 min 40 sec	21 min 20 sec
MPEG Movie AD Mode					
144 x 96 (Light)	5 min	10 min	20 min	41 min	82 min
144 x 96 (STD)	2 min	5 min	10 min	20 min	41 min
352 x 240 (Fine)	1 min	2 min	5 min	10 min	20 min
352 x 240 (Super Fine)	45 sec	1 min	3 min	6 min	13 min

* May not apply to all models