

MiniDV Handycam® Camcorder

▲ Step-up

A 3.0 Megapixel Imager on the DCR-H96 records brilliant stills and spectacular video, while the 2.7" wide (16:9) Touch Panel LCD lets you see more in greater detail while providing fingertip control. With the built-in flash, vivid detail and color can be captured in the most difficult lighting conditions.

▲ **3.3 Megapixel (Gross) Advanced HAD™ CCD Imager**

1/3" Advanced HAD™ (Hole Accumulation Diode) CCD with 2050K (effective) pixels provides stunning detail and clarity with exceptional video (up to 530 lines of horizontal resolution) and still image performance. The Megapixel technology enhances your digital videos and digital still photography performance.

■ **MiniDV Recording**

Offers up to 530 lines of horizontal resolution, 3X the color bandwidth and a significantly higher signal/noise ratio, to provide spectacular video performance.

■ **10X Optical/120X Digital Zoom**

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

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

Carl Zeiss lenses have an advanced optical multi-layer coating that offers less glare and flare with increased contrast. This results in vivid image brilliance, true-to-life color saturation and perfect renditions of subtle tones. The additional T* coating on the lens further reduces unwanted glare and flare.

■ **2.7" Wide Touch Panel SwivelScreen™ LCD Display (123K Pixels)**

The 2.7" Wide (16:9) LCD screen provides excellent viewing clarity with improved resolution. The high resolution 123K pixel LCD screen rotates up to 270 degrees for multiple viewing angles providing sharp, detailed images for monitoring or playback, and the widescreen format makes shooting in 16:9 mode and composing shots even easier.

▲ **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.

▲ **Digital Still Memory Mode with Memory Stick Duo™ Media³**

Capture still images at 2016x1512 (3.0 Megapixel) resolution, directly onto Memory Stick Duo™ Media for easy transfer to PCs for emailing, printing or sharing with other compatible Memory Stick™ devices.

■ **Progressive Shutter System**

A 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.

■ **Super SteadyShot® Picture Stabilization System**

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

▲ **Handycam Station**

The supplied Handycam Station cradle provides quick and easy connections to a TV for viewing or to a PC for editing and sharing video. Just placing the camcorder on the Handycam Station instantly makes the connections. No need to search for cables or wires when charging or playing back.

■ **i.LINK® DV Interface¹**

A digital high-speed bi-directional interface which provides Audio/Video communication between two compatible devices. This connection allows for pure digital transfer between devices equipped with an IEEE1394 interface, such as camcorders, digital VTRs, capture cards and PCs.

■ **One Touch Wide Angle Shooting**

Easily switch between 4:3 and 16:9 aspect ratios for shooting with just the touch of a button.

■ **Manual Focus**

Allows the user to manually adjust the focus of the camcorder using the touch panel. Manual focusing also allows the user to control the focus in difficult situations where either the environment or the subject does not allow the camcorder's auto focus to perform optimally, such as when shooting through a window or in a crowded environment.

ADDITIONAL FEATURES

- Tele Macro Function
- ▲ Active Interface Shoe
- USB Streaming
- Super NightShot® Plus Infrared System
- On Screen Zoom and Record Controls
- Program AE (Auto Exposure) Modes
- Picture Effects
- Digital Effects
- Battery Information
- Easy Handycam Button
- Picture Package™ Software
- InfoLithium Battery with AccuPower™ Meter System²

Mini DV

ZEISS

Handycam
Station
Supplied

PictBridge

Steady
Shot

Picture Package™



HANDYCAM

MiniDV Handycam® Camcorder

Specifications

General

Imaging Device: 1/3" CCD
Pixel Gross: 3310K
Recording Media: MiniDV Cassette, Memory Stick Duo™ Media, Memory Stick PRO Duo™ Media
Recording and Playback Times: SP: 60 min., LP: 90 min.
Video Actual: 2057K Pixels
Still Actual: 3000K Pixels

Convenience

USB Streaming: Yes
SteadyShot® Image Stabilization: Yes (Super; Electronic)
Accessory Shoe: Active Interface Shoe
White Balance: Auto, Indoor, One-push, Outdoor
Memory Stick PRO™ Media Compatibility: Tested to support up to 2GB media capacity; does not support high speed transfer function; does not support Access Control security function.
Still Image Mode(s): JPEG
Minimum Illumination: 5 Lux (0 Lux with Super NightShot® Infrared System)
Low Light Capability: Super NightShot®

Inputs and Outputs

LANC Terminal: Yes (Stereo Mini)
Analog Audio/Video Input(s): Yes (Multi AV)
Analog Audio/Video Output(s): Yes (Multi AV)
Digital Audio/Video Input(s): Yes (via i.LINK®)
Digital Audio/Video Output(s): Yes (via i.LINK®)
USB Port(s): Yes (1.1 compliant on Handycam Station)
i.LINK® Interface: Yes (on Handycam® Station)
Component Video (Y/Pb/Pr) Output(s): N/A
Headphone Jack: N/A
Microphone Input: Yes (thru Active Interface Shoe)
S-Video Input(s): Yes
S-Video Output(s): Yes (optional accessory)

Hardware

LCD: 2.7" (123K Pixels Wide 16:9 Touch Panel SwivelScreen™ LCD Display)
Lens Type: Carl Zeiss® Vario-Sonnar® T*
Viewfinder: Color (123K Pixels)
Docking Station: Yes (Handycam® Station)
Microphone: Yes (Built-in)

Optics

35mm Equivalent: 42.8-495mm (16:9 Camera Mode), 45-450mm (4:3 Camera Mode), 40.6-406mm (16:9 Memory Mode), 37-370mm (4:3 Memory Mode)
Aperture: f1.8-2.9
Exposure: Touch Panel (24 steps)
Filter Diameter: 30mm

Focal Distance: 5.1-51mm; 370mm (Telemacro)
Focus: Full Range Auto, Manual (Touch Panel)
Progressive Shutter Mode: Yes
Shutter Speed: Auto, 1/2-1/4000 (AE Mode)
Optical Zoom: 10X
Digital Zoom: 120X

Power

Power Consumption: 3.0W/3.4W (VF/LCD)
Battery Type: InfoLithium® with AccuPower™ Meter System (NP-FP50)
Power Requirements: 7.2V (battery pack); 8.4V (AC Adaptor)

Service and Warranty Information

Limited Warranty: 1 Year Parts; 90 Days Labor

Software

Operating System Compatibility: Microsoft® Windows® ME, 2000 Professional, XP Home, XP Professional
Supplied Software: Picture Package™ ver. 1.5

Video

Video Recording System: 2 Rotary Heads, Helical Scanning System
Video Signal System: NTSC color, EIA standards
Analog-to-Digital Converter: Yes (with Pass Through)

Dimensions

Weight: 1 lb. 2 oz. (525g) with Tape and Battery
Measurements: 2 7/8 x 3 5/8 x 4 3/4" (72 x 91 x 120mm)

Supplied Accessories

Power Adapter/ In-Camera Charger (AC-L25)
 InfoLithium® Rechargeable Battery (NP-FP50)
 Handycam Station (DCRA-C152)
 Remote Commander® Remote Control (RMT-831)
 Stereo A/V Cable
 USB Cable
 CD-ROM with USB Driver (PicturePackage™ Software Ver. 1.5 for Sony)

Optional Accessories

Handycam Starter Kit for MiniDV (ACC-FP71)
 InfoLithium™ Batteries (NP-FP50/FP71/FP90)
 Travel AC Charger (BC-TRP)
 Carrying Case (LCM-HCF)
 Wide Angle Lens (VCL-0630X)

UPC Code: 000000000000

BATTERY LIFE²

Battery ² (Fully charged)	Continuous Record Time VF/LCD/LCD Backlight Off/VF+LCD	Continuous Playback Time LCD On/Off
NP-FP30	—	—
NP-FP50	90/80/85/75 min	115/140 min
NP-FP70	190/170/185/160 min	240/295 min
NP-FP71	230/200/220/190 min	290/350 min
NP-FP90	345/300/335/285 min	435/525 min

MEMORY MODE³

Still Pictures — Fine/Standard (Approx.)

Memory Stick Duo™ Media ³	2016x1134 2.3MP (Wide)	640x360 0.2MP (Wide)	2016x1512 3.0MP	1600x1200 1.9MP	640x480 VGA	
16MB	13/32	115/240	10/24	16/37	96/240	
32MB	27/65	240/485	20/48	32/75	190/485	
64MB	54/130	490/980	40/98	65/150	390/980	
128MB	105/260	980/1970	82/195	130/300	780/1970	
Memory Stick PRO Duo™ Media ³	256MB	195/470	1750/3550	145/355	235/540	1400/3550
512MB	400/960	3600/7200	300/720	480/1100	2850/7200	
1GB	820/1950	7300/14500	610/1450	980/2250	5900/14500	
2GB	1650/4000	15000/30000	1250/3000	2000/4650	12000/30000	

MPEG MOVIE EX MODE³

h=hours, m=minutes, s=second

Memory Stick Duo™ Media ³	Email Mode (160x112)	Presentation Mode (320x240)	Memory Stick PRO Duo™ Media ³	Email Mode (160x112)	Presentation Mode (320x240)
16MB	10m40s	2m 40s	256MB	2h 50m 40s	42m 40s
32MB	21m 20s	5m 20s	512MB	5h 41m 20s	1h 25m 20s
64MB	42m 40s	10m 40s	1GB	11h 22m 20s	2h 50m 40s
128MB	1h 25m 20s	21m 20s	2GB	22h 45m 20s	5h 41m 20s

- i.LINK is a trademark of Sony, used only to designate that a product contains an IEEE1394 connector. All products with an IEEE1394 connector may not communicate with each other.
- Designed for use with compatible Sony InfoLithium® batteries.
- Available storage capacity of Memory Stick and Memory Stick PRO media may vary. A portion of the memory is used for data management functions. Actual available memory in MBs is: 8=7.5, 16=15, 32=30, 64=61, 128=123, 256=220, 512=460, 1GB=940, 2GB=1.85GB.
- Battery life may vary depending upon usage patterns.

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