

MiniDV Handycam® Camcorder

▲ Step-up

Transferring digital stills and mini movies to your PC for printing and emailing is fast and convenient with the removable Memory Stick Duo™ Media. The DCR-HC36 also has an attractive 3D Menu System on its wide 2.5" SwivelScreen™ Touch Panel LCD display. And the Super NightShot® Plus Infrared System lets you record natural video in low-light conditions.

■ **1/6" Advanced HAD™ CCD Imager, 680K Pixels Gross**

1/6" Advanced HAD™ (Hole Accumulation Diode) CCD with 340K (effective) pixels provides stunning detail and clarity with exceptional video (up to 500 lines of horizontal resolution) and still image performance.

■ **MiniDV Recording**

Offers up to 500 lines of horizontal resolution, 3X the color bandwidth and a significantly higher signal/noise ratio, to provide spectacular video performance.

■ **20X Optical/800X 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-Tessar® 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.

▲ **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.

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

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.

■ **USB Streaming**

Stay connected to family and friends by broadcasting live video with audio over the internet using the USB interface. You can even playback your favorite recorded scene on the camcorder's tape. It's like having your own video conferencing system.

■ **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.

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

Capture still images at 640x480 resolution, directly onto Memory Stick Duo™ Media for easy transfer to PCs for emailing, printing or sharing with other compatible Memory Stick™ devices.

■ **InfoLithium® Battery with AccuPower™ Meter System²**

Charge the battery at anytime because unlike NiCad (Nickel Cadmium) batteries, Sony's rechargeable Lithium Ion batteries are not subject to a life shortening "memory effect". Sony's exclusive AccuPower™ meter displays the battery time remaining in minutes, in either the viewfinder or on the LCD screen.

▲ **Tele Macro Function**

Useful for shooting close up shots, but without having the camcorder casting a shadow on the subject. Images shot in the Tele Macro Mode will have the subject properly focused with the background unfocused so that the subject stands out.

▲ **Super NightShot® Plus Infrared System**

With Sony's Super NightShot Infrared System you can capture natural looking video, even when shooting in low light. Record subjects up to 20 feet away using the built-in infrared system, but without the overall monochrome color common with earlier low-light recording systems.

■ **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.

■ **On Screen Zoom and Record Controls**

For additional control of the camcorder, the DCR-HC36 features Zoom and Record buttons on the frame of the LCD screen. This allows the user more flexibility when holding the camcorder, especially in overhead or low angle shots.

■ **Stamina® Battery Power Management System⁴**

Using the optional NP-FP90 InfoLithium® Battery, the DCR-HC36 can continuously record for up to 9 hours (viewfinder) or up to 7 hours (LCD) on a single full charge, providing extra long battery life.

■ **Program AE (Auto Exposure) Modes**

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

ADDITIONAL FEATURES

- Picture Effects
- Easy Handycam Button
- Fader Effects
- Battery Information
- Picture Package™ Software

Mini DV



HANDYCAM

MiniDV Handycam® Camcorder

Specifications

General

Imaging Device: 1/6" CCD**Pixel Gross:** 680K**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:** 340K Pixels**Still Actual:** 340K Pixels

Convenience

USB Streaming: Yes**SteadyShot® Image Stabilization:** Yes (Super; Electronic)**Accessory Shoe:** N/A**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® Plus Infrared System)**Low Light Capability:** Super NightShot® Plus

Inputs and Outputs

LANC Terminal: N/A**Analog Audio/Video Input(s):** N/A**Analog Audio/Video Output(s):** Yes (Multi A/V)**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)**i.LINK® Interface:** Yes**Component Video (Y/Pb/Pr) Output(s):** N/A**Headphone Jack:** N/A**Microphone Input:** N/A**S-Video Input(s):** N/A**S-Video Output(s):** Yes (optional accessory)

Hardware

LCD: 2.5" (123K Pixels SwivelScreen™ LCD Display)**Lens Type:** Carl Zeiss® Vario-Tessar®**Viewfinder:** Color (123K Pixels)**Docking Station:** N/A**Microphone:** Yes (Built-in)

Optics

35mm Equivalent: 44-880mm (4:3 Camera Mode), 44-880mm (4:3 Memory Mode)**Aperture:** f1.8-f3.1**Exposure:** Touch Panel (24 steps)**Filter Diameter:** 25mm**Focal Distance:** 2.3-46mm; 390mm (Telemacro)**Focus:** Full Range Auto, Manual (Touch Panel)**Progressive Shutter Mode:** N/A**Shutter Speed:** Auto, 1/2-1/4000 (AE Mode)**Optical Zoom:** 20X**Digital Zoom:** 800X

Power

Power Consumption: 1.9W/2.3W (VF/LCD)**Battery Type:** InfoLithium® with AccuPower™ Meter System (NP-FP30)**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:** N/A

Dimensions

Weight: 15 oz (430 g) with Tape and Battery**Measurements:** 2 5/8" x 3 1/8" x 4 1/2" (65 x 79 x 113mm)

Supplied Accessories

Power Adapter/ In-Camera Charger (AC-L25)

InfoLithium® Rechargeable Battery (NP-FP30)

Remote Commander® Remote Control (RMT-831)

Stereo AV Cable

Lens Cap

USB Cable

CD-ROM with USB Driver (Picture Package - Software Ver. 1.5 for Sony)

Optional Accessories

Handycam Camcorder Starter Kit for MiniDV (ACC-FP71)

High Capacity InfoLithium™ Batteries (NP-FP50/FP71/FP90)

Portable AC Travel Charger (BC-TRP)

AC Adaptor/Quick Charger (ACV-QP10)

A/V Cable including S-Video (VMC-30FS)

Carrying Case (LCS-VA30)

Soft Carrying Case (LCS-VAC)

Filter Kit (VF-25CPKS)

Wide Angle Lens (VCL-0625S)

High Grade Wide Angle Lens (VCL-HG0725)

Telephoto Lens (VCL-2025S)

High-Grade Telephoto Lens (VCL-HG2025)

Lightweight Tripod (VCT-R100)

Pocket Tripod (VCT-MTK)

High Grade A/V Cable with S-Video (VMC-30FS)

UPC Code: 000000000000BATTERY LIFE⁴

Battery ⁴ (Fully charged)	Continuous Record Time VF/LCD	Continuous Playback Time LCD On/Off
NP-FP30	105/85 min	90/110 min
NP-FP50	150/120 min	125/160 min
NP-FP70	310/255 min	265/330 min
NP-FP71	370/300 min	315/395 min
NP-FP90	550/455 min	475/580 min

MEMORY MODE³

Still Pictures — Fine/Standard (Approx.)



Memory Stick Duo™ Media ³	640x480 VGA
16MB	96/240
32MB	190/485
64MB	390/980
128MB	780/1970
Memory Stick PRO Duo™ Media ³	
256MB	1400/3550
512MB	2850/7200
1GB	5900/14500
2GB	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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