

MiniDV Handycam® Camcorder

▲ Step-up

The DCR-HC46 is compact, stylish and packed with features including a supplied Handycam Station cradle that provides a quick connection to sharing memories and charging the battery. Plus, a 1.0 Megapixel Imager and a 2.7" LCD display⁵ capture more video in greater detail.

▲ 1.0 Megapixel (Gross) Advanced HAD™ CCD Imager

1/5.5" Advanced HAD™ (Hole Accumulation Diode) CCD with 690K (effective) pixels provides stunning detail and clarity with exceptional video (up to 520 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 520 lines of horizontal resolution, 3X the color bandwidth and a significantly higher signal/noise ratio, to provide spectacular video performance.

■ 12X 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.

▲ 2.7" Wide (16:9) Touch Panel SwivelScreen™ Hybrid LCD Display⁵ (123K Pixels)

Provides excellent viewing clarity for both 16:9 and 4:3 aspect 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.

▲ 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.

▲ One Touch Wide Angle Shooting

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

▲ 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.

■ 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 up to 1152x864 resolution, directly onto Memory Stick Duo™ Media for easy transfer to PCs for emailing, printing or sharing with other compatible Memory Stick™ devices.

■ 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.

■ 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.

■ NightShot® Plus Infrared System

With Sony's NightShot Infrared System you can capture natural looking video, even when shooting in low light. Record subjects up to 10 feet away using the built-in infrared system, but without the overall monochrome color common with earlier low-light recording systems.

■ On Screen Zoom and Record Controls

For additional control of the camcorder, the DCR-HC46 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.

ADDITIONAL FEATURES

- Stamina® Battery Power Management System
- Program AE (Auto Exposure) Modes
- Picture Effects
- Fader
- USB Streaming
- Easy Handycam Button
- Battery Information



HANDYCAM


PictBridge


Picture Package

DCR-HC46

MiniDV Handycam® Camcorder

Specifications

General

Imaging Device: 1/5.5" CCD
Pixel Gross: 1070K
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: 690K Pixels
Still Actual: 1000K 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: 7 Lux (0 Lux with NightShot® Plus Infrared System)
Low Light Capability: 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 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: N/A
S-Video Input(s): N/A
S-Video Output(s): Yes (optional accessory)

Hardware

LCD: 2.7" (123K Pixels) Wide (16:9) Touch Panel SwivelScreen™ Hybrid LCD Display²
Lens Type: Carl Zeiss® Vario-Tessar®
Viewfinder: Color (123K Pixels)
Docking Station: Yes (Handycam® Station)
Microphone: Yes (Built-in)

Optics

35mm Equivalent: 46-628.5mm (16:9 Camera Mode), 48-576mm (4:3 Camera Mode), 43.6-523.2mm (16:9 Memory Mode), 40-480mm (4:3 Memory Mode)
Aperture: f1.8-f2.5
Exposure: Touch Panel (24 steps)
Filter Diameter: 25mm
Focal Distance: 3.0-36mm; 350mm (Telemacro)
Focus: Full Range Auto, Manual (Touch Panel)
Progressive Shutter Mode: Yes
Shutter Speed: Auto, 1/2-1/4000 (AE Mode)
Optical Zoom: 12X
Digital Zoom: 800X

Power

Power Consumption: 2.4W/2.7W (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® 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 (445g) 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-FP50)
 Handycam® Station (DRCA-C151)
 Remote Commander® Remote Control (RMT-831)
 Stereo AV Cable
 Lens Cap
 USB Cable
 CD-ROM with USB Driver (PicturePackage™ Software Ver. 1.5 for Sony)

Optional Accessories

Handycam Camcorder Starter Kit for MiniDV (ACV-FP71)
 High Capacity InfoLithium™ Batteries (NP-FP50/FP71/FP90)
 Adaptor/Quick Charger (ACV-QP10)
 Travel Charger (BC-TRP)
 Carrying Case (LCS-VAC)
 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-TK1)
 Av Composite Cables including S-Video (VMC-30FS)
 High Grade A/V Cable with S-Video (VMC-30FS)

UPC Code: 027242688742

BATTERY LIFE⁴

Battery ⁴ (Fully charged)	Continuous Record Time VF/LCD	Continuous Playback Time LCD On/Off
NP-FP30	—	—
NP-FP50	115/100/115 min	120/150 min
NP-FP70	240/215/240 min	255/310 min
NP-FP71	290/255/290 min	300/370 min
NP-FP90	435/385/435 min	455/550 min



MEMORY MODE³



Still Pictures — Fine/Standard (Approx.)

Memory Stick Duo™ Media ³	1152x648 0.7MP (Wide)	640x360 0.2MP (Wide)	1152x864 1.0MP	640x480 VGA	
16MB	40/96	115/240	30/74	96/240	
32MB	81/190	240/485	61/150	190/485	
64MB	160/390	490/980	120/300	390/980	
128MB	320/780	980/1970	245/600	780/1970	
Memory Stick PRO Duo™ Media ³	256MB	195/470	590/1400	445/1000	1400/3550
512MB	400/960	1200/2850	900/2050	2850/7200	
1GB	820/1950	2450/5900	1800/4200	5900/14500	
2GB	1650/4000	5000/12000	3750/8600	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.
- Viewable area measured diagonally.

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 Screen Image Simulated

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