

SONY




DCR-HC40

Digital Handycam® Camcorder

The DCR-HC40 is a spectacular option for those looking for great video and stills in a compact camcorder. Offering a 1.0 Megapixel CCD imager, this high quality camcorder delivers 10X Optical/120X Digital Zoom and Carl Zeiss® optics for incredible picture clarity.

FEATURES

▶ 1.0 Megapixel (Gross) Advanced HAD™ CCD Imager

 1/5" Advanced HAD™ (Hole Accumulation Diode) CCD with 690K (effective) pixels provides excellent detail and clarity, with exceptional video performance **(up to 520 lines of horizontal resolution)**. Realize great looking digital still images utilizing 1000K (effective) pixels. The Megapixel technology enhances your digital videos and digital still photography performance.


MiniDV Recording

Offers up to 520 lines of horizontal resolution, 3X color bandwidth (vs. VHS) and significantly higher S/N ratio, to provide stunning video performance.


10X Optical/120X Digital Zoom

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

2.5" Hybrid SwivelScreen™ LCD Display (123K Pixels)

 Provides excellent viewing clarity with improved resolution. The 123K pixel LCD display makes images sharp and detailed during playback or when monitoring recording. The Hybrid Reflective-Transmissive LCD Screen provides accurate viewing in sunlight or bright light, virtually eliminating the "wash-out" common with traditional LCD Screens.


▶ Digital Still Memory Mode with Memory Stick Duo™ Media

 Capture digital still images at 1152 x 864 or 640 x 480 resolution, directly onto Memory Stick Duo™ media for easy transfer to PC's for emailing, printing, or sharing with other compatible Memory Stick™ devices.


Picture Package™ Software

Easily create fun music videos with the supplied software.

Professional Quality Carl Zeiss® Vario-Tessar® Lens

 Carl Zeiss lenses 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.


Stamina® Battery Power Management System 6 Hours (Using Optional NP-FP90)

 The Sony DCR-HC40 can continuously record for up to 6 hours or playback for up to 7 hours (with LCD screen off) on a single charge with the optional NP-FP90.


Progressive Shutter

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

Easy Handycam Button

 Using a camcorder can be intimidating for some people, so with a press of the Easy Handycam button, most of the advanced functions of the camcorder are "locked out" leaving only the buttons essential for recording operational.


Super NightShot Plus Infrared System

 An advanced version of Sony's NightShot® Infrared system that allows users to record natural color images in low-light conditions, but without the blurring common with other low-light recording systems.

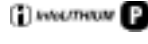
Analog To Digital Conversion with Pass-Through

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.


Battery Information

 Battery information is momentarily displayed without having to power on the camcorder. Quickly access the battery's status by pressing the Battery Info button. The Recording Time Available is displayed in minutes on either the LCD screen or in the viewfinder.


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 SteadyShot Image 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.


i.LINK®* DV Interface (IEEE1394)

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

12-Bit/16-Bit PCM Digital Stereo

16-Bit 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 compatible computers.

MPEG EX Movie Mode

 Unlike earlier MPEG1 Movies, MPEG EX Movie Mode will allow you to record uninterrupted to the capacity of the Memory Stick Duo™ Media. These movies are perfect for emailing to friends and family.

▶ STEP-UP FEATURE

DCR-HC40

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ADDITIONAL FEATURES

- Built-In Lens Cover
- Digital Audio/Video Fader
- Digital Program Editing
- ▶ Intelligent Accessory Shoe
- LCD Record Button
- Multi-Language Menu
- PictBridge™ Compatibility
- Program AE (Auto Exposure) Modes
- USB Streaming

SPECIFICATIONS

- Imaging Device:** 1/5" 1070K Pixel Advanced HAD™ CCD
- Video Actual:** 690K Pixels
- Still Actual:** 1000K Pixels
- F:** 1.8 – 2.3
- Focal Distance:** 3.2 – 32mm
- 35mm Conversion:** 46 – 460mm (Camera mode)
38 – 380mm (Memory mode)
- Filter Diameter:** 25mm
- Optical Zoom:** 10X
- Digital Zoom:** 120X
- Focusing:** Full Range Auto/Manual (Touch Screen)
- Minimum Illumination:** 7 lux (0 lux with Super NightShot Plus Infrared System)
- NightShot Infrared System:** Super NightShot Plus
- Shutter Speed:** 1/4 – 1/4000 (AE Mode)
- Viewfinder:** Color, 123K Pixels
- LCD:** 2.5" (123K) Hybrid Color
- Accessory Shoe:** Intelligent
- Video Input/Output:** Yes/Yes (Multi A/V, Special)
- Audio Input/Output:** Yes/Yes (Stereo, Special)
- i.LINK® DV Interface (IEEE1394):** Yes
- USB:** Yes
- Memory Stick PRO Duo™ Media Compatibility:** Tested to support up to 512MB media capacity; does not support high speed transfer function; does not support Access Control security function
- USB Streaming:** Yes
- LANC (Accessory) Terminal:** Yes (Stereo, Mini)
- Headphone Jack:** N/A
- Mic. Input:** Yes (Stereo)
- White Balance:** Auto/Outdoor/Indoor/One Push
- Exposure:** Manual, Touch Panel (24 Steps)
- Power Consumption (VF/LCD/VF+LCD):** 2.9W/3.2W/3.3W
- Software OS Compatibility:** Microsoft® Windows® 98SE, Me, 2000 Professional, XP Home and Pro
Macintosh® OS X (10.1.5 or later)**
- Dimensions (WHD):** 2" x 3 5/8" x 4 1/2" (50 x 92 x 112mm)
- Weight:** 14 oz (400g) without Tape and Battery
- Supplied Accessories:** AC-L25 Power Adaptor/ In Camera Charger, NP-FP50 InfoLithium® Rechargeable Battery, RMT-831 Wireless Remote Commander® Remote Control, USB Cable, MSG-M8A Memory Stick Duo™ Media, MSAC-M2 Memory Stick Duo Adapter, CR2025 Battery, Multi A/V Cable, LCD Cleaning Cloth, CD-ROM w/Driver (Picture Package™ Software v1.0 for Sony)

SONY

Sony Electronics Inc.
16765 West Bernardo Drive
San Diego, CA 92127
www.sony.com/di
For more information:
1.800.352.SONY



BATTERY LIFE

Battery* (Fully charged)	Continuous Record Time VF/LCD/VF+LCD	Continuous Playback Time LCD On/Off
NP-FP50	95/85/80 min	105/120 min
NP-FP70	200/180/175 min	225/255 min
NP-FP90	355/320/310 min	400/455 min

*Results may vary depending upon conditions



MEMORY MODE



Memory Stick Duo™ Media¹	Fine/Std 1152 x 864	Fine/Std 640 x 480	Memory Stick PRO Duo™ Media¹	Fine/Std 1152 x 864	Fine/Std 640 x 480
8MB	15/37	50/120	256MB	445/1000	1400/3550
16MB	30/74	96/240	512MB	900/2050	2850/7200
32MB	61/150	190/485			
64MB	120/300	390/980			
128MB	245/600	780/1970			



MPEG MOVIE EX MODE

h=hour, m=minute, s=second

Memory Stick Duo™ Media	Email Mode (160 x 112)	Presentation Mode (320 x 240)	Memory Stick PRO Duo™ Media	Email Mode (160 x 112)	Presentation Mode (320 x 240)
8MB	5m 20s	1m 20s	256MB	2h 50m 40s	42m 40s
16MB	10m 40s	2m 40s	512MB	5h 41m 20s	1h 25m 20s
32MB	21m 20s	5m 20s			
64MB	42m 40s	10m 40s			
128MB	1h 25m 20s	21m 20s			

OPTIONAL ACCESSORIES

- ACC-DVP MiniDV Starter Kit
- LCS-VA5 Carrying Case
- NP-FP50/70/90 High Capacity InfoLithium® Batteries
- VCL-0625S Wide Angle Lens
- VCL-2025S Telephoto Lens
- VCL-TW25 Twin Conversion Lens
- VF-R25NK Filter Set
- MSH-M64A, MSH-M128A Memory Stick Duo™ Media
- MSX-M256A, MSX-M512A Memory Stick PRO Duo™ Media

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¹ 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

* 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.

** Not compatible with USB Streaming.