

# HDR-HC3

## HDV 1080i Handycam Camcorder

The HDR-HC3 is everything you've come to expect from the industry's smallest and lightest camcorder as of February 1, 2006, plus a few extras. Instantly switch back and forth between HD and SD Recording Modes, capture 4.0 Megapixel still images, and enjoy unprecedented detail and color reproduction with the ClearVid CMOS Sensor™.

▲ Step-up

▲ **2.1 Megapixel (Gross) ClearVid CMOS Sensor™**

1/3" ClearVid CMOS Sensor provides stunning detail and clarity with exceptional video (1080 lines of resolution - HD Mode or 530 lines of horizontal resolution - SD Mode) and still image performance (4.0 Megapixel). Unlike traditional CCD Imagers, CMOS Sensors require less power, providing better battery performance.

▲ **HDV Recording Format**

From the innovators in camcorder technology, Sony's HDR-HC3 camcorder is the industry's smallest and lightest HDV1080i consumer level camcorder and player (as of February 1, 2006). Now you can record all your memories in true high-definition video.

▲ **Switchable HDV/DV Format Recording**

The HDR-HC3 is capable of recording and playing back both High Definition (HD) and Standard Definition (SD) video recorded on a standard MiniDV cassette.

▲ **Real-Time HD Codec Engine**

Sony developed a Real Time MPEG Encode/Decode system with reduced energy consumption and compact size to fit inside a personal camcorder. This engine provides efficient MPEG2 compression, and recording and playback of clear HD images at the same bit rate of the DV format, so that High Definition video can be recorded on the same MiniDV cassettes as are used for SD recording.

— **10X Optical / 80X 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 zoom.

— **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 (16:9) Hybrid Touch Panel Clear Photo LCD plus™ Display (211K Pixels)**

The 2.7" Wide (16:9) LCD screen provides excellent viewing clarity with improved resolution. The 211K 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.

▲ **Smooth Slow Record**

By increasing the record rate from 60 fields per second (fps) to 240 fps for 3 seconds allowing you to capture 3 seconds of fast motion and play the video back in 12 seconds. This is great for analyzing a golf swing or a viewing a bird in flight.

— **Digital Still Memory Mode with Memory Stick Duo™ Media<sup>3</sup>**

Capture still images up to 2304x1728 resolution, directly onto Memory Stick Duo™ Media for easy transfer to PCs for emailing, printing or sharing with other compatible Memory Stick™ devices.

▲ **Dual Record**

While recording video in High Definition you have the ability to capture a 2.3 Megapixel still image directly to Memory Stick Duo™ media.

▲ **Assignable Dial**

Built into the lens body of the camera, the assignable dial can be used not only for focus or exposure, but may also be customized by the user to control Auto Exposure (AE) Shift, Exposure, Focus and White Balance (WB) Shift. In playback mode it allows you to control the volume.

— **Super SteadyShot® Image 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.

▲ **Cinematic Mode**

Perfect for creating your own movie masterpieces, the HDR-HC3 Cinematic mode lends 24 frame film-like effect to your recordings.

ADDITIONAL FEATURES

- i.LINK® Interface (IEEE1394)<sup>2</sup>
- Tele Macro Function
- Active Interface Shoe
- ▲ Built-in Intelligent Flash
- Super NightShot® Infrared System
- Fader Effects
- Program AE (Auto Exposure) Modes
- Picture Effects
- InfoLithium® Battery with AccuPower™ Meter System<sup>1</sup>



**Specifications**

**General**

**Imaging Device:** 1/3" 2100K Gross Pixels ClearVid CMOS Sensor™  
**Pixel Gross:** 2100K  
**Recording Media:** MiniDV Cassette, Memory Stick Duo™ Media, Memory Stick PRO Duo™ Media  
**Recording and Playback Times:** High Definition: 60 minutes; Standard Definition: SP=60 min., LP=90 min.  
**Video Actual:** 1434K Pixels (16:9), 1076K Pixels (4:3)  
**Still Actual:** 1493K Pixels (16:9), 1991K Pixels (4:3)

**Convenience**

**USB Streaming:** N/A  
**SteadyShot® Image Stabilization:** Yes (Super, Electronic)  
**Accessory Shoe:** Yes, Active Interface Shoe  
**White Balance:** Auto/Outdoor/Indoor/One Push  
**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):** N/A  
**Analog Audio/Video Output(s):** Yes (Multi A/V)  
**Digital Audio/Video Input(s):** Yes (via i.LINK®)²  
**Digital Audio/Video Output(s):** Yes (via i.LINK®)²  
**USB Port(s):** Yes (1.1 compliant)  
**i.LINK® Interface:** Yes²  
**Component Video (Y/Pb/Pr) Output(s):** Yes  
**Headphone Jack:** N/A  
**Microphone Input:** N/A  
**Remote Jack:** N/A  
**S-Video Input(s):** N/A  
**S-Video Output(s):** Yes (via optional accessory)  
**HDMI™ Connection Output(s):** Yes

**Hardware**

**LCD:** 2.7" (211K Pixels) Wide (16:9) Touch Panel SwivelScreen™ Clear Photo LCD plus™ Display  
**Lens Type:** Carl Zeiss® Vario-Sonnar® T\*  
**Viewfinder:** Color, 123K Pixels  
**Docking Station:** N/A  
**Microphone:** Yes (Built-in)

**Optics**

**35mm Equivalent:** 41.3-485mm (16:9 Camera Mode), 50.5-594mm (4:3 Camera Mode), 40.4-404mm (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 (Assignable Dial)  
**Progressive Shutter Mode:** N/A  
**Shutter Speed:** Auto, 1/20 - 1/500 (AE Mode)  
**Optical Zoom:** 10X  
**Digital Zoom:** 80X  
**Resolution:** 2MP

**Power**

**Power Consumption:** 4.1W/4.4W - HDV; 3.9W/4.2W - DV (VF/LCD)  
**Battery Type:** InfoLithium® with AccuPower™ Meter System (NP-FP60)

**Service and Warranty Information**

**Limited Warranty:** 1 Year Parts; 90 Days Labor

**Software**

**Supplied Software:** N/A

**Video**

**Analog-to-Digital Converter:** N/A  
**Format(s) Supported:** HDV 1080i and MiniDV

**Dimensions**

**Weight:** 1 lb. 5 oz. (600g) with Tape and Battery  
**Measurements:** 3 1/4" x 3 1/8" x 5 1/2" (82 x 78 x 139mm)

**Supplied Accessories**

Power Adaptor/ In Camera Charger (AC-L200)  
 InfoLithium® Rechargeable Battery (NP-FP60)  
 Wireless Remote Commander® Remote Control (RMT-831)  
 A/V Cable  
 Component Video Cable  
 USB Cable

**Optional Accessories**

Starter Kit (ACC-FP71)  
 Rechargeable InfoLithium® Batteries (NP-FP50/FP71/FP90)  
 AC Charger & Power Supply (BC-TRP)  
 Filter Kit (VF-30CPKXS)  
 Wide Angle Lens (VCL-0630X)  
 High Grade Wide Angle Lens (VCL-HG07630X)  
 Tele Conversion Lens (VCL-2030X)  
 High Grade Tele Conversion Lens (VCL-HG2030)  
 Video Light (HVL-HL1)  
 Video Light & Flash (HVL-HFL1)  
 Tripod (VCT-R640)  
 Pocket Tripod (VCT-MTK)  
 Soft Case (LCM-HCF)  
 Carrying Case (LCS-VA30)  
 Wireless Bluetooth™ Microphone with Center Channel Capability (ECM-HW1)  
 Stereo Microphone (ECM-HST1)  
 A/V Cable with S-Video (VMC-30F5)  
 Sports Pack (SPK-HCB)  
 Professional MiniDV Cassette for High Definition Recording (DVM-63HD)

**Color:** Black  
**UPC Code:** 027242688599

**BATTERY LIFE¹**

Battery¹ (Fully charged)	Continuous Record Time VF/LCD/LCD Bcklit Off/VF+LCD	Continuous Playback Time LCD On/Off
NP-FP50	65/60/65/55 min	75/80 min
<b>H</b> NP-FP60	100/90/100/90 min	115/125 min
<b>D</b> NP-FP70	135/125/135/125 min	160/175 min
<b>V</b> NP-FP71	165/150/165/150 min	195/205 min
NP-FP90	250/230/250/225 min	290/310 min
NP-FP50	65/60/65/60 min	85/95 min
<b>D</b> NP-FP60	105/95/105/95 min	135/145 min
<b>V</b> NP-FP70	145/135/145/130 min	185/200 min
NP-FP71	175/160/175/155 min	220/235 min
NP-FP90	260/240/260/235 min	335/355 min

**STILL IMAGE MODE³**

Fine/Standard Picture Quality

Memory Stick Duo™ Media	2016x1134 2.3MP (Wide)	1512x1134 1.7MP	2304x1296 3.0MP (Wide)	2304x11728 4.0MP	1600x1200 1.9MP	640x480 VGA
8MB	6/16	8/20	5/12	3/9	8/18	50/120
16MB	13/32	17/40	10/24	7/18	16/37	96/240
32MB	27/65	36/85	20/48	15/37	32/75	190/485
64MB	54/130	72/170	41/98	31/75	65/150	390/980
128MB	105/260	145/340	83/195	63/150	130/300	780/1970
<b>Memory Stick PRO™ Duo Media</b>						
256MB	195/470	260/590	150/355	110/270	235/540	1400/3550
512MB	400/960	530/1200	305/720	230/550	480/1100	2850/7200
1GB	820/1950	1050/2450	620/1450	475/1100	980/2250	5900/14500
2GB	1650/4000	1800/4300	1250/3000	970/2300	2000/4650	12000/30000

1. Actual battery life may vary based on product settings, usage patterns and environmental conditions. Designed for use with compatible Sony InfoLithium® batteries.  
 2. 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.  
 3. 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 MB's is: 8=7.5, 16=15, 32=30, 64=61, 128=123, 256=220, 512=460, 1GB=940MB, 2GB=1.85GB

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