

PRELIM

▲ Step-up

The HDR-FX7 is the first HDV 1080i consumer level camcorder and player with three-1/4" ClearVid™ CMOS Sensors providing the ultimate in resolution for video and still images. A 20x Optical Zoom Carl Zeiss® Vario-Sonnar® T* Lens never loses any quality or detail, no matter what you're shooting.

▲ **Three - 1/4" ClearVID™ CMOS Sensors**
Three - 1/4" ClearVID™ CMOS Sensors with 1,120K (effective) pixels provides stunning detail and clarity with exceptional video (up to 1080 lines of resolution - HD) and still image performance. The Megapixel technology enhances your digital videos and digital still (1037K - 16:9 mode) photography performance.

— **HDV Recording Format**
From the innovators in camcorder technology, Sony's HDR-FX7 camcorder is the world's first HDV1080i consumer level camcorder and player to include 3 CMOS Sensors (as of September 7, 2006). Now you can record all your memories in Full HD 1080.

— **Switchable HDV/DV Format Recording**
The HDR-FX7 is capable of recording and playing back both High Definition and Standard Definition video recorded on standard MiniDV cassettes.

— **Real-time HD Codec Engine**
A Sony developed Real Time MPEG Encode/Decode system with reduced energy consumption and compact size to fit inside a personal camcorder. 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 cassettes as are used for MiniDV recording.

▲ **20X Optical Carl Zeiss® Vario-Sonnar® T* Lens**
From the authority in lens technology, the Carl Zeiss® Vario-Sonnar® T lens provides a high quality 20x optical zoom which maintains image clarity and color while reducing glare and flare.

— **Digital Extender**
The Digital Extender mode is available throughout the entire zoom range and will digitally enhance the zoom up to 1.5 times the current position.

▲ **3.5" Wide (16:9) Hybrid Clear Photo™ LCD plus Display (211K Pixels)³**
Provides excellent viewing clarity with improved resolution. The 211K pixel LCD display makes images sharp and detailed during playback or when monitoring recording. The Hybrid LCD Screen provides accurate viewing in sunlight or bright light, virtually eliminating the "washout" common with traditional LCD Screens.

— **Super SteadyShot® Optical Stabilization System**
An advanced form of Sony's SteadyShot Image Stabilization system that controls an even higher range of shake and vibration frequencies. This optical stabilization system achieves an even higher level of smoothness without degradation of video like some digital stabilization systems.

— **Manual Zoom and Manual Focus Ring**
Dual independent Zoom and Focus rings provide precise and detailed control over the amount of zoom and the overall focus of the image with just a turn of the rings. Fast, intuitive framing when zooming, and finely detailed focusing is easy with the natural "feel" of the rings.

— **Selectable Exposure/Iris Control**
Allows you to adjust the amount of light entering the lens. By adjusting Exposure; brightness of the image is adjusted in accordance with the Iris and gain (shutter speed is locked). The Iris control allows the volume of light to be adjusted (Shutter Speed and Gain are adjustable).

— **Expanded Focus Indicator**
The camera's LCD image is magnified, temporarily, up to 4X its original size without any loss of distortion. This allows the user more finite control while focusing the camera for greater detail and clarity.

— **Picture Profile**
Allows the user to set manual adjustments for a scene (color, sharpness, white balance, etc) into any one of six presets, so they can be called up at just the touch of a button. Useful when shooting under the same conditions repeatedly, as options do not have to be re-set each time. Settings for various shooting conditions are offered as defaults.

— **Assignable Buttons**
Six buttons on the exterior of the camcorder are user-assignable so that they can be set to the options most commonly utilized, for ease of recording.

— **i.LINK®2 HDV/DV Interface (IEEE1394)**
A high speed bi-directional digital video/audio communication between two compatible devices equipped with an IEEE1394 interface, including camcorders, digital VCRs, and PCs.

— **Shot Transition**
Allows for a smooth automatic scene transition. Settings for focus, zoom, iris, gain, shutter, and white balance can be set to the Assignable Buttons 1, 2 and 3 which will create a smooth transition and will take place according to the set time and transition. This function enables the focus to gradually shift from the front of the screen to a deeper part of the screen. Thus the iris enables a smooth change of depth of field.

ADDITIONAL FEATURES

- ▲ Dual Record
- Smooth Slow Record
- ▲ Digital Still Memory Mode with Memory Stick Duo™ Media⁴
- Battery Information
- Multi-Language Menu

HDV
HDV 1080i

3 ClearVid
CMOS sensor

Enhanced
Imaging
Processor

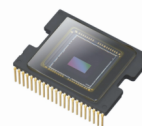
ZEISS

HDV/DV
Switchable

Shot
Transition



MEMORY STICK PRO Duo



ClearVid™ CMOS Sensor



Specifications

General

Imaging Device: Three-1/4" 1120K Gross Pixels ClearVID™ CMOS Sensors
Pixel Gross: 1120K
Recording Media: MiniDV Cassette, Memory Stick Duo™ Media, Memory Stick PRO Duo™ Media
Recording and Playback Times: SP: 60 min. (HDV/DV); LP 90 min. (DV)
Video Actual: 1037K Pixels (16:9), 778K Pixels (4:3)
Still Actual: 1037K Pixels (16:9), 778K Pixels (4:3)

Audio

Dolby® Digital Output: N/A
Recording System: MPEG1 Audio Layer 2 - Stereo (HDV); PCM (DV)

Convenience

USB Streaming: N/A
SteadyShot® Image Stabilization: Yes (Super; Optical)
Accessory Shoe: Yes, Cold
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: 4 Lux
Low Light Capability: N/A

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 (i.LINK®² and USB)
Digital Audio/Video Output(s): Yes (i.LINK®² and USB)
USB Port(s): Yes, ver. 1.1
i.LINK® Interface: Yes²
Component Video (Y/Pb/Pr) Output(s): Yes
Headphone Jack: Yes (Stereo Mini)
Microphone Input: Yes (Stereo Mini)
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: 3.5" (211K Pixels) Wide (16:9) Hybrid Clear Photo™ LCD plus Display³
Lens Type: Carl Zeiss® Vario-Sonnar® T*
Viewfinder: Color, 252K Pixels (16:9)
Docking Station: N/A
Microphone: Yes (Built-in)

Optics/Lens

35mm Equivalent: 37.4-74.8mm (16:9 Camera Mode), 45.7-91.4mm (4:3 Camera Mode)
Aperture: 1.6 - 2.8
Exposure: 24 Steps (Menu)

Filter Diameter: 62mm
Focus: Full Range Auto/Manual (Ring)/One Touch
Progressive Shutter Mode: N/A
Shutter Speed: Auto: 1/60-1/2000; Manual: 1/4-1/10000; Smooth Slow Record: 1/250 - 1/2000
Optical Zoom: 20X
Digital Zoom: N/A
Resolution: 1MP

Power

Power Consumption: HDV: 5.9W/5.9W (VF/LCD); DV: 5.7W/5.7W (VF/LCD)
Battery Type: InfoLithium® with AccuPower™ Meter System (NP-F570)
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: N/A
Supplied Software: N/A

Video

Video Recording System: MPEG2 (HDV); AVI (DV)
Video Signal System: NTSC color, EIA standards
Analog-to-Digital Converter: N/A
Format(s) Supported: Real Time HD Codec Engine, HDV/DV Recording

Dimensions

Weight: 3 lbs. 10 oz. (1.6kg) with supplied battery and lens hood
Measurements: 5 3/4" x 6 1/4" x 12 3/4" (145 x 156 x 322mm) with lens hood attached

Supplied Accessories

Power Adaptor/ In Camera Charger (AC-L15)
 InfoLithium® Rechargeable Battery (NP-F570)
 Remote Commander® Remote Control (RMT-831)
 Component Video Cable
 Stereo A/V Cable
 Lens Hood
 USB Cable
 Large Size Eye Cup

Optional Accessories

Rechargeable Battery Pack (NP-F770/970)
 Hard Carrying Case (LCS-FXA)
 Soft Carrying Case (LCS-VCB)
 Remote Control Tripod (VCT-1170RM)
 Shoulder Brace (VCT-FXA)
 Video Light (HVL-20DW2)
 High Grade Wide Angle Lens (VCL-HG0762)
 High Grade Telephoto Lens (VCL-HG1762)
 AC Battery Charger (AC-VQ1050D)

Color: Charcoal

BATTERY LIFE¹

Battery ¹ (Fully charged)	Continuous Record Time VF/LCD/LCD Bckt Off/VF+LCD	Continuous Playback Time LCD On/Off
NP-F570	155/155/160/150 min	245/245 min
NP-F770	320/320/335/310 min	510/510 min
NP-F970	480/480/500/465 min	760/760 min
NP-F570	160/160/165/155 min	270/270 min
NP-F770	335/335/350/320 min	550/550 min
NP-F970	500/500/520/480 min	830/830 min

STILL IMAGE MODE⁵

Fine/Standard Picture Quality

Memory Stick Duo™ Media ⁴	1440x810 1.2MP (WIDE)	1080x810 0.9MP	640x360 VGA (WIDE)	640x480 VGA	
16MB	25/60	34/80	115/240	96/240	
32MB	51/120	69/160	240/485	190/485	
64MB	100/240	135/325	490/980	390/980	
128MB	205/490	280/650	980/1970	780/1970	
Memory Stick PRO Duo™ Media ⁴	256MB	370/890	500/1150	1750/3550	1400/3550
512MB	760/1800	1000/2400	3600/7200	2850/7200	
1GB	1550/3650	2100/4900	7300/14500	5900/14500	
2GB	3150/7500	4300/10000	15000/30000	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. Viewable area measured diagonally.
 4. 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.
 5. Image size and file size may vary based upon the type and complexity of the image recorded.

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