

JVC®

The Perfect Experience / —
/

High-Definition
Digital Camcorder

JY-HD10

*World's first affordable
High Definition
Camcorder!*

720/30p HD Recording

1080i/720p/NTSC Playback

1.18 Megapixel Progressive CCD

F1.8-1.9 Optical Zoom Lens

MPEG Edit Studio Pro LE

XLR x2 Audio Inputs

Rotating Grip

Records on MiniDV Tape



PRO HD

JVC technological innovation provides HD performance in a compact and cost-effective camera



Multi-Format Compatibility

**720/30p
HD**

The JY-HD10 is capable of 720/30p HD recording on MiniDV tape.

**480/60p
SD**

To accommodate a variety of shooting and playback requirements, it also offers SD recording in MPEG-2 format as well as NTSC recording in DV format.

60 minutes of HD/SD can be recorded on a 60 MiniDV tape.



**480/60i
DV**



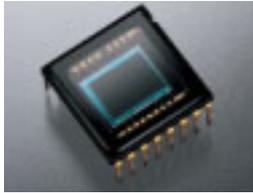
MPEG-2
Recording
DV Recording



JVC PROFESSIONAL

1.18 Megapixel Progressive Scan CCD

This newly developed 1/3" HD CCD with 1,180,000 pixels offers an improved



dynamic range as well as high sensitivity and a high S/N ratio. By combining this progressive scan HD CCD with our original hybrid complementary-primary digital filter and processing circuitry, color accuracy and horizontal resolution are improved. And our exclusive driving system (patent pending) attained multi-format recording capability.

Aluminum Frame

Rugged body with die-cast aluminum center frame and magnesium coated exterior (excluding grip).

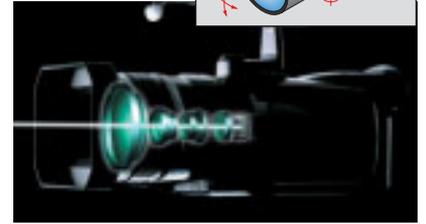
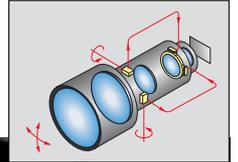
F1.8—F1.9 Optical Zoom Lens



Developed for HD recording, this all glass multi-element lens offers improved peripheral resolution, brightness, and low distortion. The 10x zoom lens offers full range zooming with almost no variance in brightness. And by use of multi-coated lenses and a large lens hood, it enables capture of virtually ghost-free HD images.

Optical Image Stabilization

The camera incorporates an optical image stabilization lens shift system to allow HD recording even at high zoom ratios. Combined with our newly developed lens servo circuit and camera-shake detection algorithm, it provides effective full-time stabilization for superior results when shooting still images as well as video.



New ergonomic style for the active professional.

Rotating Grip

Transition from a high to low angle shot without removing your hand from the grip or taking your eyes off the action. Get HD footage where bulkier cameras just can't go.



Actual Size

Bundled with high-performance editing and authoring software.



MPEG Edit Studio™ Pro LE (Windows® XP compatible)

This professional NLE (Non-Linear Editing) application is customized for the JY-HD10. It allows HD and SD MPEG-2 files captured from the JY-HD10 to be edited with frame accuracy. And with audio dubbing, title transitions, and sound monitoring while editing, it's possible to create polished videos on a PC. Converted standard definition program stream MPEG-2 files can be recorded on regular DVD.

HD Capture Utility

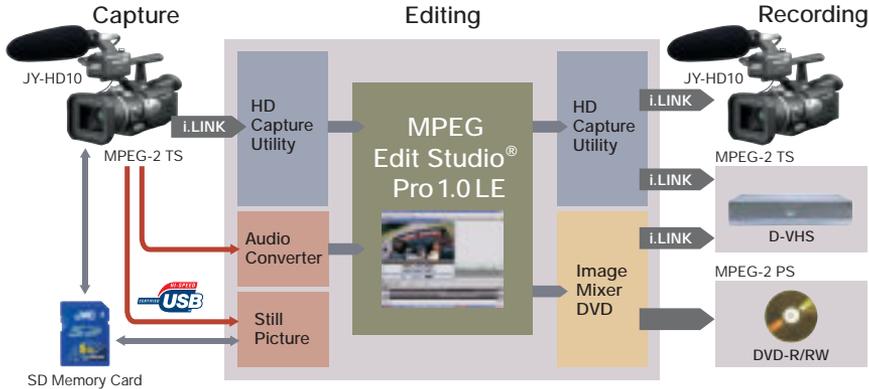
Basic tool for capturing HD and SD footage from the JY-HD10 to a computer. After editing, this utility can export the video to a connected unit. (Real-time monitoring of video being captured is not possible.)

Audio Converter 1.0

Lets you import common audio files such as MP3, WAV, and WMA with full sound mixing and editing support, for use in your movie soundtrack in the MPEG-1 Audio Layer 2 format used by MPEG Edit Studio™ Pro LE.

ImageMixer DVD

With a variety of ready-made frames and graphics, this application makes it easy to author standard DVD Video discs viewable on almost any DVD player from the videos created using MPEG Edit Studio™ Pro LE. (DVD authoring requires DVD burner supported by PIXELA in addition to compatible PC.)



Designed to meet the special needs of demanding professionals.



JVC Professional Universal HD Solution

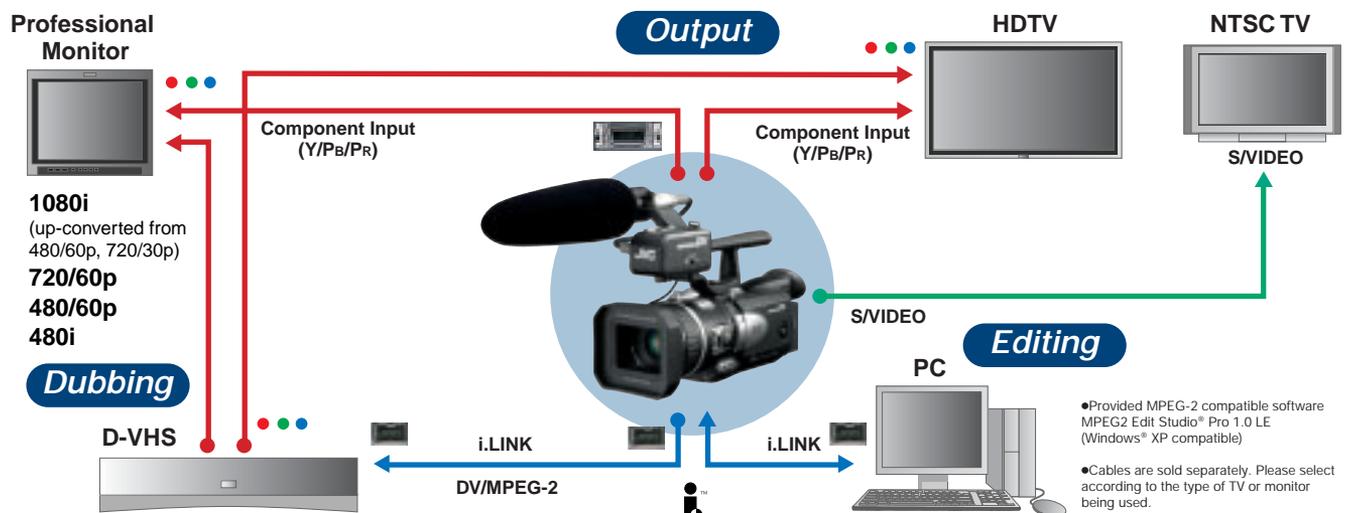


JY-HD10 Recording/Playback Capabilities

Recording		Playback		Audio
Recording format	Recording mode	Component Output	i.LINK output	
HD MPEG-2 TS(GOP=6)	720/30p (16:9)	<ul style="list-style-type: none"> → 1080/60i → 720/60p → 480/60p → 480/60i* 	720/30p	MPEG-1 Layer2 2ch (16bit) 48kHz 384kbps
SD MPEG-2 TS(GOP=12)	480/60p (16:9)	<ul style="list-style-type: none"> → 1080/60i → 480/60p → 480/60i* 	480/60p	MPEG-1 Layer2 2ch (16bit) 48kHz 384kbps
DV	480/60i (4:3, 16:9)	→ 480/60i*	480/60i	PCM 4ch (12bit) 32kHz 2ch (16bit) 48kHz (44.1kHz playback only)

*Also S-VIDEO and Composite output

JY-HD10 Connectivity with Peripherals



- The camera's E-E through image when outputting through the Component Output in HD mode will be 480/60p only.
- The frame/field rate for 720/60p and 1080i analog output during HD playback will be 60.00 fps.
- By connecting via i.LINK to a D-VHS video deck with built-in MPEG-2 HD decoder, output of 1080/60i, 720/60p are possible, and the frame rate is converted to 59.94 fps.
- When outputting 480/60p, the frame/field rate will always be 59.94 fps regardless of the recording mode or output terminal.

•Provided MPEG-2 compatible software
MPEG2 Edit Studio® Pro 1.0 LE
(Windows® XP compatible)

•Cables are sold separately. Please select
according to the type of TV or monitor
being used.

Specifications

Recording system	Mini DV format, HD Digital VCR Conference's Part 7 (DVB) and Part 8 (ATV) standards, DVC-SD, DVCA TV / DVB compliant			
Digital / component	Format	i.LINK IEEE 1394	Component	S / Composite
Video format recording / playback	1280×720p / 30 fps MPEG-2 HD 16:9	720p / 29.97	480p / 59.94 480i / 29.97	480i / 29.97 (Anamorphic "squeeze" or Letterbox depending on component output)
	720×480p / 60 fps MPEG-2 SD 16:9	480p / 59.94	Playback only: 720p / 60 fps HD only 1080i / 30 fps	
	720×480i / 30 fps DV 4:3 or (16:9) and DV 4:3 D.Wide	480i / 59.94 (16:9 is anamorphic "squeeze" only) 480i / 29.97 psf (Progressive segmented frame)		
HD/SD bit rate	19.7 Mbps Transport Stream (MTRM Standard compatible with D-VHS)			
Digital audio signal recording:	HD, SD mode MPEG-1 Layer2 16 bit Stereo, 384 kbps DV mode PCM 16 bit 2 channels or 12 bit 4 channels			
Image sensor	1/3 inch 1.18 million-pixel progressive CCD	Area of motion pictures (pixels)	HD 16:9 SD 16:9 DV 16:9 DV 4:3 D. Wide DV 4:3	1280×659 932×480 932×480 941×646 699×480
		Effective area for still pictures		1280×873
Lens	F1.8—F1.9, f = 5.2mm - 52mm	when compared to a 35mm still camera: 40.3mm - 403mm in 16:9 HD mode, 55.0mm - 550mm in 16:9 SD mode and 16:9 DV Anamorphic mode 67.8mm - 678mm in 4:3 DV mode 47.7mm - 477mm in 4:3 DV D.Wide mode 37.1mm - 371mm in 4:3 Digital Still memory mode		
	Filter Diameter	52mm		
Zoom magnification	10x optical zoom, SD/DV 40x and 200x digital zoom			
Sensitivity	F8, 2000 Lux (HD mode)			
Monitor	3.5" color LCD monitor (200,000-pixel polycrystalline silicon LCD)			
Viewfinder	0.44" color LCD viewfinder (180,000-pixel polycrystalline silicon LCD)			
I/O connector	i.LINK	4pin (IEEE1394 conforming) S400		
	Multipin	Y/C:	Input Y: 0.8V(p-p) -1.2V(p-p), 75Ω C: 0.2V(p-p) -0.4V(p-p), 75Ω Output Y: 1.0V(p-p) 75Ω C: 0.29V(p-p) 75Ω	
		Composite:	Input Y: 0.8V(p-p) -1.2V(p-p), 75Ω Output Y: 1.0V(p-p) 75Ω	
		Audio:	Stereo Input: 300mV (rms), 50kΩ Stereo Output: 300mV (rms), 1kΩ Editing control	
	Headphone	ø3.5mm Mini-plug		
	USB	Mini-USB B-type (5 pin)		
	Component	Analog Output Y: 1.0V(p-p) 75Ω Pb: 0.7V(p-p), 75Ω Pr: 0.7V(p-p), 75Ω		
	Audio Inputs	XLR x 2 unbalanced (-60dBs--68dBs)		
DC	JVC link cable			
Dimensions (W×H×D)	4-9/16×3-15/16×10-3/4 inches, 114.5×99×271.5 mm Including maximum protrusion, but with LCD closed and Viewfinder pushed in, not including Mic Holder			
Weight	Main unit alone: 2.8 lbs (1,270g) During shooting operation: 3.3 lbs (1,490g) including Battery Pack, Mini DV Cassette, Memory card, not including Mic Holder			
Operating temperature	0 to 40 degrees Centigrade (32 to 104 degrees Fahrenheit)			
Operating humidity	35 to 80%			
Storage temperature	-20 to 50 degrees Centigrade (-4 to 122 degrees Fahrenheit)			
Power source	DC 6.3V (using AC Adapter), DC 7.2V (using Battery Pack)			
Power consumption	HD/SD mode 8.0W (using viewfinder), 9.7W (using LCD monitor) DV mode 6.8W (using viewfinder), 8.5W (using LCD monitor)			

Continuous (Actual) recording time*1		HD/SD mode	DV mode
Using viewfinder	BN-V416	1 hr. 15 min. (37 min.)	1hr. 30 min. (45 min.)
	BN-V428	2 hr. 15 min. (1 hr. 8 min.)	2 hr. 50 min. (1 hr. 25 min.)
Using LCD monitor	BN-V416	1 hr. 00 min. (30 min.)	1 hr. 10 min. (35 min.)
	BN-V428	1 hr. 50 min. (55 min.)	2 hr. 10 min. (1 hr. 5 min.)

*1 Note...Continuous recording time, actual recording time, and number of still pictures are approximate.

Still picture format	JPEG compliant, DCF, Digital print order format					
	SD Memory Card (ex)			MultiMediaCard (ex)		
Picture capacity (Fine/Standard)	8MB	~	64MB	8MB	~	32MB
640×480 (4:3)*	30/80		297/772	36/95		149/388
848×480 (16:9)*	25/66		241/643	29/79		121/323
1280×720 (16:9)*	10/26		99/257	12/31		49/129
1280×960 (4:3)	7/20		74/193	9/23		37/97

*These sizes also recordable on tape.

*i.LINK denotes IEEE (Institute of Electronics and Electronics Engineers) 1394-1995 and its extended specifications.

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<Windows*>

- OS: Microsoft® Windows® XP Home Edition/ Professional (Pre-install version) • CPU: Intel® Pentium®4 2GHz or above • RAM: 512MB or above for DDR SDRAM or DRD RAM, 512MB or above when taking video memory from RAM • Terminal: IEEE1394 (i.LINK) terminal and USB terminal (Standard equipment) • Displays: 1024 x 768 or above • Video memory: 32MB or above • Hard Disk: Ultra ATA/100 (7200rpm or above recommended) • Other: CD-ROM drive (For installation) • When making DVD Video discs, using ImageMixer DVD • Recordable DVD drive that PIXELA Corporation supports is necessary. • DVD-RAM media cannot be supported by ImageMixer DVD.

*Information about compatible drives will be provided at the web site of PIXELA Corporation, etc.

[When installing MPEG Edit Studio™ Pro 1.0 LE] HDD unused space: Approx. 50MB or above necessary (Just for installation)

[When installing ImageMixer DVD] HDD unused space: Approx. 120MB or above necessary (Just for installation)

<Macintosh>

This software is incompatible with Macintosh

*note: • May not work correctly depending on the PC environment. • Microsoft® and Windows® are registered trademarks of Microsoft Corporation in U.S.A. and other countries. • Intel®, Pentium® are registered trademarks of Intel Corporation. • MPEG Edit Studio is a registered trademark of KDDI Corporation. • Other listed corporations' and products' names are their owner's trademarks or registered trademarks.



JY-HD10 Provided Accessories

q AA-V40U, AC Power Adapter/Charger w DC Cord to Charger from camera e RM-V717U, Remote Control Unit
r USB Cable t Component Video Cable y S/AV/Editing Cable u BN-V428U, High Capacity Battery Pack 2800 mAh
i Lens Cap o CD-ROM with software ! Audio Cable x 2 for stereo microphone and headphone ! Audio Extension Cable ! Editing Extension Cable ! Cleaning Cassette
! 4 MB SD Memory Card (Already inserted in the camcorder)
! Shoulder Strap x 7 ! AAA (R03) Battery x 2 (for remote control unit) ! Core Filter x 7 for cables ! ACA-BNC Adapter x 3
! Carrying Handle @Pro Pad (with XLR x 2)
• Lens Hood (Already attached to the camcorder)

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Printed in Japan
ICN-0276