

**JVC**<sup>®</sup>  
**PROFESSIONAL**

# JY-HD10U

High Definition Recording



## JVC's ground-breaking JY-HD10U puts high definition recording into the hands of everyone!

- High Definition Recording Capability:
  - 720/30P (MPEG2)
  - 480/60P (MPEG2)
- High Definition Playback Capability:
  - 1080/60i
  - 720/60P
  - 480/60i
  - 480/60i 4:3
- Standard Definition Recording/Playback too!
  - 480/60i 4:3 Recording on Standard Mini DV Tape
- New developed Lens for HD video image x10, F1.8
- Optical image stabilizer system: with on/off switch
- New 1/3-inch 1.18 Mega-pixel progressive scan CCD (Single chip)
- 16:9 still image capture, MPEG-4 clip capture with SD memory card
- Real time video streaming possible via USB interface to PC
- Pro pad (XLR x2, Microphone holder)
- Audio level indicator on LCD monitor, Color Bar
- New PC software for MPEG2TS Editing

## FEATURES

JVC has made an enormous leap into the future with the world's first affordable HDTV pro-camcorder. Previously, HDTV camcorders cost well over \$50,000, putting them out of the price range of most videographers. With an explosion in HDTV monitors and rear-projectors, there has been a corresponding need for a cost effective way to create HD content, and distribute it to the new generation of displays.

JVC has developed a complete system that answers that need, beginning with the JY-HD10U camcorder. This single-CCD marvel lets you record high definition native 16:9 content in the 1280 x 720P mode at 30 frames per second. Your recordings are stored on inexpensive, widely available Mini-DV cassettes, capable of up to 63 minutes recording time per cassette. You can play them back directly from the JY-HD10U camcorder onto an HDTV monitor or projector with component inputs, or dub them to the D-VHS format using the IEEE-1394 interface. The results are absolutely startling--like nothing you've ever seen from a camcorder in this price range!

The JY-HD10U can also be used to make beautiful 16:9 progressive scan recordings in the 480/60P mode--ideal for viewing on today's high quality DVD players. And, of course, you are still able to make standard 480i recordings in the Mini-DV format compatible with a wide range of systems.

### How is this all possible?

JVC has been a pioneer in data compression and is one of the original licensors of MPEG compression technology. With the development of a new high definition codec (encoder, decoder) JVC has been able to pack HD recording and playback into this tiny camcorder and use Mini-DV digital cassettes for data storage. JVC uses a newly developed 1/3-inch progressive scan CCD with 1.18 million pixels to create images in the 1280 x 720 format. Using the DV platform as a data storage medium, JVC has enabled bitstream recording of high definition MPEG-2 data, while allowing the camera to perform as a standard Mini-DV camcorder by simply flipping a switch.

### Adapted for professional users

The JY-HD10U, while similar to its consumer counterpart, has been beefed up for professional users. We've added the most requested "pro" feature, dual XLR microphone inputs and a holder for professional shotgun microphones. There's also a sturdy die-cast handle for stable shooting and carrying.

### IEEE-1394 connectivity

The industry compatible iLink (IEEE-1394) connector allows you to transfer your high definition recordings to JVC's D-VHS format for distribution. You can also connect a PC for simple editing of the MPEG-2 recordings.

## SPECIFICATIONS

### JY-HD10U

#### Signal system:

HD (750/30p; 1280x720p viewable), SD 525/60p ,  
NTSC 525/60p Standard signal systems of  
Japan /USA

#### Recording system:

Mini DV format DVC-SD, DVCATV / DVB  
compliant

#### Video signal recording:

Digital component recording

#### Audio signal recording:

MPEG1 Layer2 16bit Stereo1 channel in HD,  
SD mode

#### PCM Digital recording:

16 bit 2 channels, 12bit 4 channels in DV mode

#### Image sensor:

1/3 1,180,000-pixel progressive CCD)  
Effective area for motion pictures:  
840,000 pixels in HD mode  
460,000 in SD mode  
340,000 in DV mode  
Effective area for still pictures:  
1,120,000 pixels in memory mode

#### Lens:

F1.8 F1.9, f 5.2mm ~ 52mm when compared to a  
35mm still camera:  
40.3mm ~ 403mm in HD mode  
55mm ~ 550mm in SD mode  
67.8mm ~ 678mm in DV mode  
Diameter for filter installation:  
52mm

#### Zoom magnification:

10x (optical zoom), 200x (digital zoom)

#### Monitor:

3.5" color LCD monitor (200,000-pixel  
polycrystalline silicon LCD)

#### Viewfinder:

0.44" color LCD viewfinder (180,000-pixel  
LCD)

#### Power source:

DC 6.3V (using AC Adapter), DC 7.2V (using  
Battery Pack)

#### Power consumption:

At HD/ SD mode:  
8.0W (using viewfinder), 9.7W (using LCD monitor)

#### At DV mode:

6.8W (using viewfinder), 8.5W (using  
LCD monitor)

#### Still picture compression system:

JPEG compliant, DCF

#### Still picture recording size:

(When using a memory card)  
1280x960 dots  
VGA(640x480 dots)  
1280x720 dots  
848x480 dots

#### Dimensions:

114.5 (W) x 99 (H) x 271.5 (D) mm  
(Including maximum protrusion)

#### Weight:

Main unit: Approx. 1,270g  
During shooting operation: 1,490g (including  
Battery Pack, Mini DV Cassette, and Hand strap)

#### Input and output terminals:

IEEE 1394 terminal, USB terminal, D terminal,  
headphone terminal, microphone terminal,  
DC terminal AV/S edit terminal

Specifications subject to change

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