

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

**PRELIMINARY**

# GY-DV500U

1/2" 3-CCD DV Camcorder

**PROFESSIONAL DV**

*New Product News*



## **The ultimate ENG solution: a compact, lightweight DV camcorder built to meet professional requirements**

Designed specifically for professional use, the GY-DV500U combines the convenience and cost-effectiveness of MiniDV with the professional performance and features you need. Weighing less than 5 kg (11 lbs.) fully loaded, this compact camcorder offers up to 60 minutes\* of high-quality component digital recording on a MiniDV cassette and incorporates three high-quality 1/2" CCDs to assure superior, high-resolution picture performance. Other pro-level features include a bayonet lens mount and Super Scene Finder SSF™, as well as IEEE 1394 (input and output) and RS-232C interfaces for easy integration in various professional NLE and post-production systems. With its full range of professional features, lightweight design, and high-quality pictures, the GY-DV500U is the ideal acquisition tool for corporate, educational, cable and broadcast productions, as well as wedding videography, multimedia, and more.

\*With an MDV-60 tape

# FEATURES

## DV recording on a MiniDV tape

JVC's GY-DV500U brings the convenience and affordability of MiniDV together with the high-quality results you need for professional use. Up to 60 minutes\* of high-quality component digital images can be recorded on a single MiniDV tape, assuring you the high-quality, non-degradable images you need for top results in post-production editing. Plus, MiniDV tapes are readily available and inexpensive, so you can get replacement tapes whenever you need them, wherever you are.

(\*With an MDV-60 tape)

## Compact, lightweight design

Because it uses MiniDV tapes, the GY-DV500U is able to pack a lot of performance into a very compact body that weighs only 5 kg (11 lbs.).

## State-of-the-art 1/2" 3-CCD image pickup

To ensure the best possible image quality, the GY-DV500U incorporates three 1/2" 380,000-pixel CCDs. Each CCD is equipped with highly advanced circuitry which virtually eliminates vertical smear when shooting bright lights in a dark room. Lag and image burn are almost eliminated. An F1.4 prism optical system designed specifically for 1/2" CCD pickups further contributes to superior picture quality.

## LOLUX 0.75 lux

The LOLUX mode increases sensitivity with almost no increase in noise. LOLUX lets you shoot in low light conditions, so you can capture high-quality video footage with excellent color balance at just 0.75 lux illumination, better than what you can see with your eyes.

## Maximum system flexibility

The GY-DV500U is equipped with an IEEE 1394 (DV) input/output. This allows lossless digital video and audio transfers to or from any DV equipped device such as a non-linear editing system or DV recorder. Basic controls are also available via the DV connector or an RS-232C port, making the GY-DV500U ideal not only for shooting, but also as a spooler/recorder/player in an editing system.

## 1/2" bayonet lens mount

The GY-DV500U uses a standard professional 1/2" bayonet lens mount, which means the widest selection of lenses are available.

## High-quality PCM digital audio

To complement its superior DV pictures, the GY-DV500U offers outstanding digital PCM sound. You can choose between two 16-bit 48-kHz channels or two 12-bit 32-kHz channels with a dynamic range of more than 85 dB.

## Viewfinder status display

The viewfinder status display uses characters and menus to display selected information in the viewfinder, including various events, camera setting status, recorder operation, and selected setup parameters.

## Super Scene Finder

A JVC exclusive, Super Scene Finder lets you log scenes automatically or manually in the field, and mark which scenes are good. This dramatically speeds up the transfer process and saves disk space, because now you can digitize only those scenes which you need for editing. The scene data is written directly onto the MiniDV cassette, eliminating the need for special higher priced cassettes. Up to 134 scenes can be marked per cassette. In addition, scene data from the last 3 cassettes is held in the camcorder's memory, allowing the data to be added to the cassette at a later time.

## Convenient menu dial

A built-in menu dial serves to quickly and easily navigate through the viewfinder menu, as well as set the shutter speed.

## Other features

- Full auto shooting for one-touch automatic operation
- Back tally lamp for letting talent behind the camcorder know you are shooting
- Precision "accu-focus" mode for easy, precise lens focus
- Continuous auto black (CAB)
- Automatic level control (ALC) for continuous automatic control of gain
- Back-lit LCD display for VTR menu and status indications
- Tape/battery remaining indicator
- Variable scan view for shooting computer screens
- Sync lock mode for multi-camera shooting
- Black stretch/compress for enhancing or suppressing shadow areas
- Adjustable gamma for adjusting the "feel" of the picture according to taste
- Adjustable detail frequency for setting picture sharpness for a bolder or finer look
- Time code reader/generator
- Built-in phantom microphone power

# SPECIFICATIONS

## General

Power requirement: DC 10.5 V to 17 V  
Power consumption: Approx. 20 W  
Dimensions: 275 (W) x 245 (H) x 130 (D) mm (including projections)  
(10-7/8" x 9-11/16" x 5-1/8")  
Weight: 5 kg (11 lbs.) including viewfinder, battery, microphone and tape  
Temperature  
Operating: 0°C to 40°C (32°F to 104°F)  
Storage: -20°C to 60°C (-4°F to 140°F)  
Humidity  
Operating: 30% to 80% RH  
Storage: 85% RH or less

## Camera section

Image pickup device: 1/2" interline-transfer CCDs  
Color separation optical system: F1.4, 3-color separation prism  
Number of effective pixels: 380,000 (768 (H) x 494 (V))  
Color system: NTSC (wide-band R-Y, B-Y encoder)  
Color bars: SMPTE type  
Sync system: Internal sync, external sync (VBS)  
Lens mount: 1/2" bayonet system  
Optical filter: 3200K, 5600K, 5600K + 1/64ND  
Sensitivity: F11, 2000 lux  
Gain: -3, 0, 6, 9, 12, 18 dB, variable gain in ALC and LOLUX  
Minimum illumination: 0.75 lux with F1.4, LOLUX  
Registration: 0.05% or less (excluding lens distortion)  
Detail correction: Horizontal and vertical dual-edged, selectable frequencies.  
Electronic shutter variable range:  
Standard value: 59.94 (60) Hz  
Fixed values: 100, 250, 500, 1000, 2000 Hz  
Variable scan: 60.1 to 2084.6 Hz

## VTR section

Format: DV format  
Signal format: NTSC  
Usable tape: MiniDV tape

Tape speed: 18.812 mm/sec. (SP mode)  
Record/play time: 60 minutes or more (with an MDV-60 tape)  
FF/rewind time: Within 120 sec. (with an MDV-60 tape)  
**[Video]**  
Video signal recording format: 8-bit, 13.5 MHz, 4:1:1 component recording  
**[Audio]**  
Audio signal recording format: 16-bit, 48 kHz or 12-bit, 32 kHz PCM for 2 channels  
Frequency response: 20 Hz to 20 kHz (16-bit)  
20 Hz to 14.5 kHz (12-bit)  
S/N: 60 dB or more  
Dynamic range: 85 dB or more  
**[Connectors]**  
Video output: 1.0 Vp-p, 75 ohms (BNC) (composite video signal)  
Y/C output: Y/C signal, 4-pin, 75 ohms, unbalanced  
Rear audio inputs (AUDIO 1, AUDIO 2)  
MIC: -60 dBs, low impedance (XLR), balanced  
LINE: +4 dBs, 10 kohms, balanced  
Front mic input: -60 dBs  
Line outputs (LINE 1, LINE 2): -6 ± 1 dBs, low impedance (RCA), unbalanced  
IEEE 1394 interface: 4-pin  
RS-232C interface: Mini DIN 6-pin

## Accessories

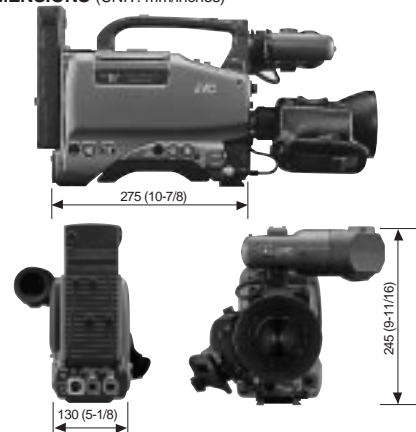
Instruction manual  
Tripod mounting plate  
Microphone

## Options

VF-P115U 1.5" viewfinder  
VF-P116U 1.5" viewfinder  
VF-P400U 4" studio viewfinder  
S14 x 7.3B12U 14:1 power zoom lens (Fujinon)  
S19 x 6.5B12U 19:1 power zoom lens (Fujinon)

YH14 x 7.3K12U 14:1 power zoom lens (Canon)  
YH18 x 6.7K12U 18:1 power zoom lens (Canon)  
MV-P615U monaural microphone with XLR connector  
HZ-FM13U focus manual control for Fujinon lens (excluding S14 lens)  
HZ-FM15U focus manual control for Canon lens  
AA-P250U AC power adapter/charger  
AA-G10U AC adapter/battery charger  
NB-G1 Ni-Cd battery (2.2 Ah)  
BH-P27U battery holder  
NP-1 type batteries  
CB-500U carrying case  
TP-P300U tripod

## DIMENSIONS (UNIT: mm/inches)



Design and specifications subject to change without notice.

# JVC<sup>®</sup>

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