

JVC
PROFESSIONAL

1/3" 3-CCD DV Camcorders

GY-DV300U (NTSC) (DV input/output)

GY-DV300E (PAL) (DV output only)

GY-DV301E (PAL) (DV input/output)

Network Pack

KA-DV300U

Streamcorder

Mini **DV**



PROFESSIONAL DV

Simulated pictures.

With 12-bit ADC and 24-bit DSP, this superb 3-CCD camcorder delivers the outstanding DV picture quality that true professionals demand.

With its powerful broadcast-grade 12-bit ADC, 24-bit digital signal processing, three high-resolution 1/3-inch CCDs, and high-quality MiniDV recording, the versatile GY-DV300 offers stunning, true-to-life images with over 700 lines of horizontal resolution. And since this is a camera built for professionals, it also offers studio camera highlight handling of over 400%, and comes with a complete set of broadcast-level picture controls including black stretch & compress, soft detail and variable color matrix. That professional performance is complimented by versatile multimedia output options that include realtime MPEG4 streaming capability for webcasting with optional KA-DV300.



3-CCD camera for high-quality picture

3-CCD To ensure the best possible image quality, the GY-DV300 incorporates three 1/3" 410,000*(NTSC)/470,000**(PAL) CCDs. Each CCD is equipped with advanced circuitry that virtually eliminates vertical smear when shooting bright lights against a dark background. Video resolution of over 700 TVL exceeds the requirements of today's digital media such as DVD's. * 380,000 effective ** 440,000 effective

F11 at 2000 lux

The camera's high-sensitivity optical system (F11 at 2000 lux) allows you to easily shoot high-quality images even in extreme low light situations. This powerful feature increases creative flexibility and simplifies lighting requirements.

Newly-developed 12-bit ADC* and 24-bit DSP**



The 12-bit ADC allows direct digital input to the DSP without passing through analog pre-gain and pre-knee circuits, eliminating signal degradation. In addition, JVC's new DSP with advanced 24-bit video processing brings out natural details, eliminates spot noise, and accurately reproduces dark areas.

* ADC: Analog Digital Converter ** DSP: Digital Signal Processor

400% dynamic range

By creating an ultra-smooth gamma curve calculated with a true log scale algorithm, a dynamic range of 400% is obtained, making it possible to accurately reproduce fine details and subtle colors in shadowed and overexposed areas.

14x zoom lens

Both auto and manual focus and iris control are available. 14x zoom speed can be varied as required and the large diameter focus ring ensures smooth, accurate focusing, allowing you to shoot the intended images. An optical image stabilizer (inner focus) helps stabilize zoom images.

LOLUX 2.65 lux (100% video out)



LOLUX

When activated, the LOLUX mode increases sensitivity with almost no increase in noise. LOLUX increases the gain by 16x (+24 dB) so you can capture high-quality video footage with excellent color balance in low-light conditions.



NORMAL

Optical image stabilizer

To minimize jittery images when shooting with the handheld GY-DV300, an optical image stabilizer is provided.

AE (automatic exposure) function

Brightness is automatically adjusted by combining the gain, shutter speed and iris.

Full auto shooting

When the GY-DV300 is in the Auto mode, iris, shutter speed, gain, white balance, audio rec level and optional image stabilizer are all adjusted automatically according to the shooting conditions.

Professional manual functions

A wide range of manual functions gives you the flexibility to fine-tune the way your camera captures images. Manually adjustable functions include focus, iris, zoom, shutter, gain, white balance and recording levels. In addition, you can adjust pictures with individual settings available for master black, detail, DTL vh balance, V resolution, auto knee on/off, black and color matrix and gamma.

16:9 (letterbox) and 4:3 aspect ratios

The screen can be switched between 4:3 and 16:9, allowing you to record signals with the aspect ratio appropriate to the application.

One-push auto focus/auto iris

When the focus or iris switch is set to MANUAL, the Auto Focus mode or Auto Iris mode can be engaged by pressing and holding the PUSH AUTO FOCUS or PUSH AUTO IRIS button.

Cinema Gamma

You can select an S-shape gamma curve mode that gradually changes gradations in the dark and high-brightness areas. This will provide film-like color gradations in the images you shoot.



Reliable recording system for high-quality MiniDV pictures and PCM audio

High-quality PCM audio



To compliment its superior pictures, the GY-DV300 offers outstanding digital PCM sound. You can choose from two 16-bit, 48-kHz channels or two 12-bit, 32-kHz channels with a dynamic range of more than 71 dB. In addition, two XLR connectors are provided for audio input.

Audio recording level adjust

Audio recording level can be adjusted to minimize extraneous noise picked up by the microphone. Audio recording levels for channels 1 and 2 can be set either manually or automatically.

SMPTE/EBU time code generator

SMPTE/EBU-standard time code can be recorded and read for accurate editing. The time code system is locked to the drop-frame mode, REC RUN mode or re-generation mode. SMPTE/EBU time code can be preset at the beginning of the tape.

Versatile, user-friendly design with professional functions

2.5-inch LCD display

The 200,000-pixel 2.5" color TFT LCD monitor provides a high-resolution image during shooting or instant replay with 440 TV lines, and adjustable peaking and zebras. Time, status, mode, and other information is also displayed. You can tilt the monitor (180° up and 90° down) for high-angled overhead shooting and low-angle shots.

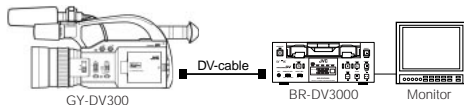
Systematic menu screens for easy control

The convenient menu system lets you quickly set and switch most basic functions while referring to the LCD display, viewfinder or on monitor.

Other features

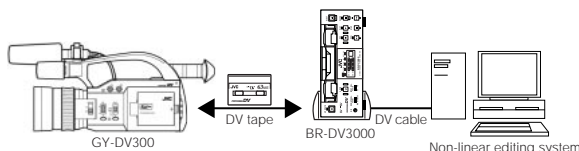
- MiniDV recording system
- Light weight ergonomic design
- Optional wide conversion lens
- Blank Search
- Edit search
- 0.44-inch LCD color viewfinder
- DV (IEEE 1394) connector
- Long-time battery life
- Time/date recording
- Zebra pattern (4-step)
- Built-in SMPTE/EBU color bar
- Variable scan shutter
- Two XLR connectors
- 1/32 ND filter
- Black Fade function

Continuous recording system

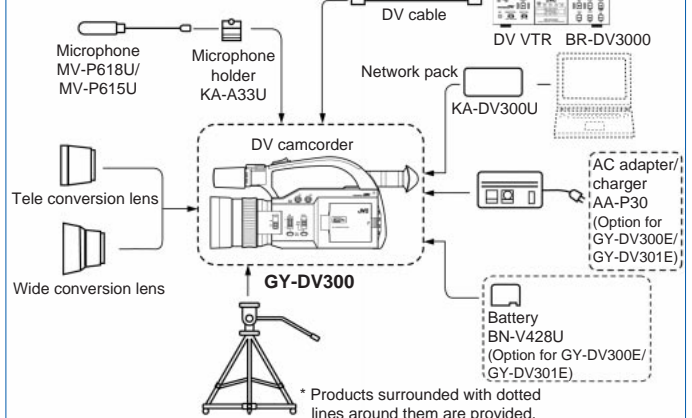


When the GY-DV300 is connected to a BR-DV3000 recorder via the DV connector, the BR-DV3000 will start recording 5 minutes before the tape in the camcorder ends. This allows continuous shooting for extended periods, without any interruption. Continuous recording is possible for up to about 5 and a half hours with a 63-minute tape and 276-minute tape.

Non-linear editing system



System configuration



Realtime MPEG4 streaming capability ideal for live webcasts



You can insert a LAN or CF card into the KA-DV300U adapter attached to the GY-DV300. With a LAN card inserted, plugging your GY-DV300 into a local network is effortless. When the CF card is inserted, you can store video and audio as a data file in real time at the same time as the data is recorded on tape.

1. All images and sound captured with the GY-DV300 can be streamed as MPEG4 files in real time. Data rate can be adjusted from 32 kbps to 384 kbps to match the network conditions. For audio, you can select from off, 16k, 24k, 32k and 40k.

2. A wireless LAN card or wired LAN card can be used. By incorporating the GY-DV300 into a LAN system, realtime MPEG4 video and audio can be delivered to a local Intranet or to the Internet.

3. MPEG4/ASF files can be recorded on a CF card. In addition, camera settings can be stored as setup files on the CF card and recalled as needed.

* For details on compatible wireless or wired LAN cards and CF cards, consult your JVC dealer.

This convenience and flexibility makes the GY-DV300 ideal for any type of live event. From weddings and concerts to school lessons and live news broadcasts, you'll be able to send your images around the world instantly.

Specifications

General

Power requirement: DC 7.2 V to 12 V
 Power consumption: Approx. 10 W (In the Record mode)
 Dimensions: 357 (W) x 159 (H) x 130 (D) mm (14-1/16" x 6-5/16" x 5-1/8")
 Weight: 1.4 kg (3.09 lbs.) (without battery)
 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: 1/3" interline-transfer CCD x 3
 Color separation optical system: F1.6, 3-color separation prism
 Number of pixels: 410,000 (811 (H) x 508 (V)) (NTSC)/
 470,000 (795 (H) x 596 (V)) (PAL)
 Number of effective pixels: 380,000 (768 (H) x 494 (V)) (NTSC)/
 440,000 (752 (H) x 582 (V)) (PAL)
 Color system: GY-DV300U (NTSC), GY-DV300E/
 GY-DV301E (PAL) (wide-band R-Y, B-Y encoder)
 Color bars: SMPTE/EBU type
 Sync system: Internal sync (built-in SSG)
 Lens magnification: 14x (optical)
 Optical filter: 1/32ND
 Sensitivity: F11, 2000 lux
 Minimum illumination: 2.65 lux, LOLUX (100% video out)
 Horizontal resolution: 700 TV lines
 Gain: -3 ~18 dB (1 dB-step), variable gain (0.2 dB-step) in ALC and
 LOLUX (24 dB)
 Electronic shutter: 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, variable
 (ALC) (GY-DV300U)
 1/120, 1/250, 1/500, 1/1000, 1/2000, variable (ALC)
 (GY-DV300E/GY-DV301E)
 Variable scan: 60.1 to 2084.6 Hz (GY-DV300U)
 50.1 to 2067.8 Hz (GY-DV300E/GY-DV301E)
 Contour correction: Horizontal and vertical dual-edged

Lens section

Focus length: f = 5.6 mm to 79.8 mm
 Maximum diameter ratio: 1: 1.6 (wide) to 1: 2.8 (tele)
 Shortest shooting distance: Max. 1.0 m
 Swaying correction range: ±0.3°
 Filter diameter: 52 mm

VTR section

Format: DV format, SD specifications
 Signal format: GY-DV300U (NTSC)/GY-DV300E/GY-DV301E (PAL)
 DV in/out resolution: 540 TV lines
 Usable tape: MiniDV tape
 Tape speed: 18.812 mm/sec. (SP mode), 12.555 mm/s (LP mode)
 (GY-DV300U) (18.831 mm/sec. (SP mode), 12.568 mm/sec.
 (LP mode) (GY-DV300E/GY-DV301E)
 Record/play time: 60 minutes (with an M-DV60ME tape in SP mode),
 90 minutes (with an M-DV60ME tape in LP mode)
 FF/rewind time: Approx. 2 min. (with an M-DV60ME tape)
 Time code: Drop (GY-DV300U only), Rec Run, Regeneration, Preset
 (the beginning of the tape only)

[Video]

Video signal recording format: 8-bit, 13.5 MHz, 4:1:1 (NTSC)/
 4:2:0 (PAL) component recording

[Audio]

Audio signal recording format: 16-bit, 48 kHz PCM for 2 channels or 12-bit,
 32 kHz PCM for 4 channels (recording only for 2 channels)
 Dynamic range: 71 dB or more

[Connectors]

Video output: 1.0 V (p-p), 75 ohms, unbalanced (BNC)
 (composite video signal)
 Y/C output: Y: 1 V (p-p), 75 ohms, unbalanced
 C: 0.286 V (NTSC)/0.3 V (PAL) (p-p), 75 ohms,
 unbalanced (4-pin)
 Microphone input: -55 dBs, 3 kohms, balanced, +48 V output for
 phantom power supply
 Audio outputs: -8 dBs, low impedance, unbalanced (RCA)
 Earphone jack: -60 dBs to -28 dBs, 8-ohm impedance
 (monaural sound mini-jack)
 DV connector: 4-pin
 GY-DV300U/GY-DV301E: DV input/output
 GY-DV300E: DV output only
 Built-in microphone: uni-directional, sensitivity of -40 dBs

Included accessories (GY-DV300U)

BN-V428U battery x 1
 AA-P30U AC adapter/charger x 1

KA-DV300U (Optionally available)

Network Pack



File system: ASF streaming/ASF file
 Video compression system: MPEG4 realtime
 Sound compression system: G. 726 realtime
 Image size: CIF (352x288), QCIF (176x144)
 Video rate: 32k, 64k, 128k, 256k, 384k
 Audio rate: Off, 16k, 24k, 32k, 40k
 Maximum frame rate: QCIF 30F (NTSC)/25F (PAL)
 PC card slot: Compatible with wired/wireless LAN card and CF card
 Streaming: ASF streaming with wired/wireless LAN card
 Capturing: ASF file with CF card
 Setup via network: Network setup, port setup, encoding parameters, camera control
 Viewer/capture: Streamproducer, Streamcapture
 VTR control via network: REC/PLAY/PAUSE/STOP/FF/REW

For details on compatible LAN cards, consult your JVC dealer.

Streamproducer

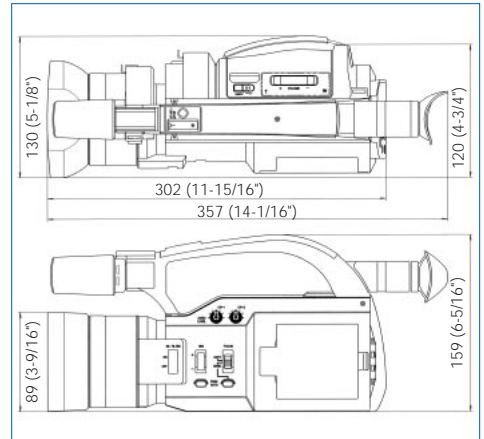
(streaming software provided with the KA-DV300U)

Computer system requirements

(for Streamproducer operation when only one camcorder is used)
 CPU: 700 MHz Pentium III processor or greater
 RAM: at least 256 MB
 OS: Windows 2000 Professional
 HDD: Depends on amount of continuous operation time required
 LAN: Two ports (TCP/IP LAN interface) Modem/router: must
 obtain global IP address

Dimensions

Unit: mm (inches)



Options

DC 7.2 V,
2,800 mAh

One lithium-ion battery is provided with the GY-DV300U.

BN-V428U
Lithium-ion battery

AA-P30U

One AC adapter/charger is provided with the GY-DV300U.

AA-P30U (EK)
(UK plug)

AA-P30U (EG)
(Continental European plug)

AC adapter/charger

Two BN-V428U batteries can be charged continuously.

	MV-P615U	MV-P618U
Exterior	Aluminum	Plastic mold
Power supply system	Phantom (48 V)	Phantom (48 V)
Connector	XLR-3P	XLR-3P
Sensitivity	-65 dB	-65 dB
S/N	50 dB or more	40 dB or more
Weight	140 g	90 g

KA-A33U
Microphone holder

VC-VDV204 (4p-4p, 2 m)
VC-VDV206 (4p-6p, 2 m)
 DV cable

GL-V0752
(0.7x)
Wide conversion lens

GL-V1452
(1.4x)
Tele conversion lens

BR-DV3000
Standard DV/Mini DV Recorder

BR-DV6000
Standard DV/Mini DV Recorder with Editing Function

GY-DV5000
Standard DV/Mini DV Camcorder

GY-DV550
Studio MiniDV Camcorder

M-DV63PRO
M-DV60ME
M-DV30ME
 MiniDV tapes
M-DV12CL
 MiniDV cleaning tape

Design and specifications subject to change without notice.



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