

JVC[®]
PROFESSIONAL

PRELIMINARY

GY-DV550U (NTSC model)
GY-DV550E (PAL model)

1/2" 3-CCD DV Camcorder with Full CCU Control

PROFESSIONAL DV

New Product News



Mini **DV**

Do More, Do It Better, and Do It For Less — Introducing the Versatile GY-DV550, The First Professional Digital Camcorder that can function as a Studio Camera, ENG Camera or Iso-Camera

A broadcast-standard studio camera. A powerful, portable ENG camcorder. And much more. Meet the GY-DV550 from JVC. Designed by professionals, for professionals, the GY-DV550 is the world's first DV camcorder to offer studio camera capability. Thanks to the built-in 26-pin interface, you can connect the GY-DV550 to a CCU for remote-controlled studio operation or backup recorder in the field. But that's not all. It also comes with pool feed input/output, so you can transfer image data back and forth to another camera or cameras, making it ideal for special shooting situations such as press conferences, exclusive interviews, and sporting events. Thanks to the GY-DV550's Professional DV tape mechanism, it can record isolated camera views (ISO-Cam) during a live multi-camera shoot, making it ideal for parallel shooting at live concerts and other events.

Naturally, we've made sure the GY-DV550 is equipped with all the other capabilities you need, including a standard 1/2-inch bayonet mount for use with a great diversity of professional lenses, bidirectional IEEE 1394 (NTSC), two 48 kHz 16-bit digital PCM audio channels, and a built-in SMPTE or EBU timecode reader/generator, as well as XLR microphone inputs, audio outputs, headphones output, and both composite and Y/C outputs.

Maximum versatility, top-level performance, and superior cost-efficiency make the GY-DV550 the smart solution for producers who need a camcorder capable of doing double-duty in both the studio and the field.

FEATURES

System flexibility

26-pin interface

The GY-DV550 is the only DV camcorder in the world to offer full CCU control. With its 26-pin interface, the GY-DV550 can be used in a studio environment where multiple remote camera and Iso-Cam operations are required. This interface allows the user to connect a Remote Camera Control or external data storage system. In addition, recording on DV benefits customers who use this system either in live broadcast situations, live webcasting or ENG applications, as well as assignments where post-production work is required later.



Ready for EFP remote control (RM-LP57/LP55)

The EFP remote connects directly to the GY-DV550 for precise control over the video parameters.

Genlocking function

To meet the demand for systemization, the GY-DV550 is equipped with a genlocking function that includes SC lock to assure high-resolution pictures.

SMPTE or EBU TC input/output

These connectors allow you to synchronize multiple camcorders when shooting with several camcorders at the same time.

Video input function

The genlock input connector doubles as a composite video input, allowing you to use the GY-DV550 as a standard video recorder.

IEEE 1394 input/output*

This allows high-quality compressed digital video signal transfer directly to a computer, a non-linear editing system, or to another DV recorder, making it possible for event videographers and multimedia producers to digitally spool directly to a non-linear editing platform without loss, and then to download directly back to video tape using the camera alone.

* The PAL model has output only.

Return video output for Tele-Prompter

Tele-Prompter capability assures full support for studio program production.

1/2" bayonet lens mount

The GY-DV550 uses a standard professional 1/2" bayonet lens mount, making it compatible with the widest selection of broadcast lenses.

High-quality performance

Full digital DV recording on a MiniDV tape

The GY-DV550 combines the convenience and affordability of MiniDV with the high-quality camera performance you need for professional use. Up to 80 minutes* of high-quality 8-bit, 13.5 kHz, 4:1:1 (NTSC)/4:2:0 (PAL) DV 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.

* With an MDV-80 tape.

High-quality PCM digital audio

To complement its superior pictures, the GY-DV550 offers outstanding digital PCM sound. Audio signals are locked with video signals for smooth editing. You can choose two 16-bit 48-kHz channels or two 12-bit, 32-kHz channels with a dynamic range of more than 85 dB.

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

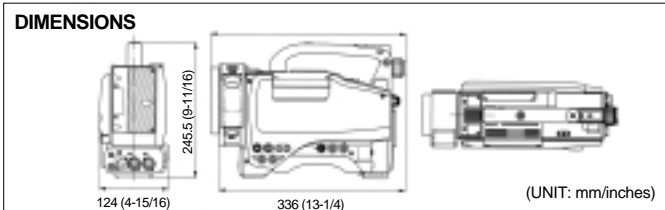
To ensure the best possible image quality, the GY-DV550 incorporates three 1/2" 380,000 (NTSC)/440,000 (PAL) pixel interline-transfer CCDs. Each CCD is equipped with highly advanced circuitry that virtually eliminates vertical smear when shooting bright lights in a dark room. Lag and image burn are also reduced to indiscernible levels, while high sensitivity of F11 at 2000 lux assures creative flexibility and simplifies lighting requirements.

LOLUX 0.75 lux

When activated, 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.

Other features

- Viewfinder status display
- Super scene finder
- Convenient menu dial
- Full auto shooting
- Back tally lamp
- Precision "accu-focus" mode
- Continuous auto black (CAB)
- Automatic level control (ALC)
- Back-lit LCD display
- Tape/battery remaining indicator
- Variable scan view
- Black stretch/compress
- Adjustable gamma point
- Adjustable detail frequency
- Time code reader/generator
- Built-in phantom microphone power
- Time date stamp
- Skin tone detection
- Auto knee



SPECIFICATIONS

GY-DV550U (NTSC model)

GY-DV550E (PAL model)

General

Power requirement: DC 10.5 V to 17 V

Power consumption: Approx. 20 W (w/o viewfinder)

Dimensions: 336 (W) x 245.5 (H) x 124 (D) mm (13-1/4" x 9-11/16" x 4-15/16")

Weight: 5.8 kg (12.8 lbs.) (main unit only)

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))(NTSC)/440,000 (752 (H) x 582 (V))(PAL)

Color system: NTSC (wide-band R-Y, B-Y encoder)/PAL (R-Y, B-Y encoder)

Color bars: SMPTE/EBU type

Sync system: Internal sync, external sync (VBS)

Lens mount: 1/2" bayonet system

Optical filter: 3200K, 5600K + 1/8ND, 5600K + 1/64ND

Sensitivity: F11, 2000 lux

S/N: 62 dB or more (NTSC)/60 dB or more (PAL) (available through 26-pin)

Resolution: More than 750 lines

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

Electronic shutter variable range:

Standard value: 59.94 (60) Hz (NTSC)/50 Hz (PAL)

Fixed values: 100, 250, 500, 1000, 2000 Hz (NTSC)/120, 250, 500, 1000, 2000 Hz (PAL)

Variable scan: 60.1 to 2084.6 Hz (NTSC)/50.1 to 2067.8 Hz (PAL)

VTR section

Format: DV format

Signal format: NTSC (GY-DV550U)/PAL (GY-DV550E)

Usable tape: MiniDV tape

Tape speed: 18.812 mm/sec. (NTSC)/18.831 mm/sec. (PAL) (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 (NTSC)/4:2:0 (PAL) 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

Audio inputs (AUDIO 1, AUDIO 2)

MIC: -60 dBs, low impedance (XLR), balanced

LINE: +4 dBs, 10 kohms, balanced

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

VF connector: 6-pin

Genlock/video input: BNC

Earphone jack: Stereo mini-jack (monaural)

Included accessories

Instruction manual

Tripod mounting plate

Options

VF-P115BU/BE 1.5" viewfinder

VF-P116U/E 1.5" viewfinder

VF-P400 4" B&W 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)

AA-P250U/E AC power adapter/charger

NP-1 type battery

Design and specifications subject to change without notice.

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