

JVC[®]
PROFESSIONAL

PRELIMINARY

GY-DV700WU (NTSC model)
GY-DV700WE (PAL model)

2/3" 3-CCD Native 16:9/4:3 Switchable DV Camcorder

PROFESSIONAL DV

New Product News



Mini **DV**

The New GY-DV700W Professional DV 2/3" 3-CCD Camcorder From JVC — Setting The Standard For ENG/EFP/Electronic Cinematography. With Widescreen Capability, Comprehensive Professional Features, and Broadcast-Standard Performance.

Specifically designed to meet increasing demands for affordable, high-performance ENG/EFP/Electronic Cinematography, the GY-DV700W is equipped with JVC's original high performance dual-pipeline 14-bit DSP (Digital Signal Processing), making it suitable for the most demanding production applications. Switchable between its native 16:9 aspect ratio and the conventional 4:3 ratio, this impressive unit features three 2/3-inch interline transfer CCDs to assure the highest possible picture quality right from the start. SMPTE or EBU TC input/output allows synchronization of multiple cameras, while enhanced sensitivity of F11 @2000 lux provides broadcasters and independent producers with the additional functionality they need. Maximum creative flexibility is assured, too, thanks to a versatile design that lets you use matte boxes and prime lenses. Other professional, broadcast-standard features include manual gamma, knee and master black adjustments, Full Auto White, Black Stretch/Compression, zebra level indicator and LoLux low light performance. And, of course, this full-featured professional camcorder is also equipped with all the essentials — like bidirectional IEEE 1394, two 48 kHz 16-bit digital PCM audio channels, time code input/output and a built-in SMPTE or EBU time code reader/generator.

FEATURES

2/3" 3-CCD image pickup

High quality & resolution

The GY-DV700W incorporates three 2/3" 480,000 (NTSC)/570,000 (PAL) pixel interline-transfer CCDs and a 2/3" F1.4 RGB prism to deliver exceptionally sharp pictures. 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 also reduced to undetectable levels.

Native 16:9/4:3 switchable

With more and more high-end television production and independent movie producers turning to digital video for their production needs, the picture quality obtained by shooting using native 16:9 aspect ratio CCD's is indispensable.

High-quality performance

Professional DV recording on a MiniDV tape

The GY-DV700W 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-DV700W 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.

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.

Versatile functions

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. Producers can now digitally spool directly to a non-linear editing platform without loss, and then transfer the finished product directly back to video tape using the camera alone.

* The PAL model has output only.

2/3" bayonet lens mount

The GY-DV700W uses a standard professional 2/3" bayonet lens mount, making it compatible with the widest range of lenses, including prime lenses and matte boxes.

SMPT E or EBU time code input/output

These connectors allow you to synchronize multiple camcorders using a genlock function.

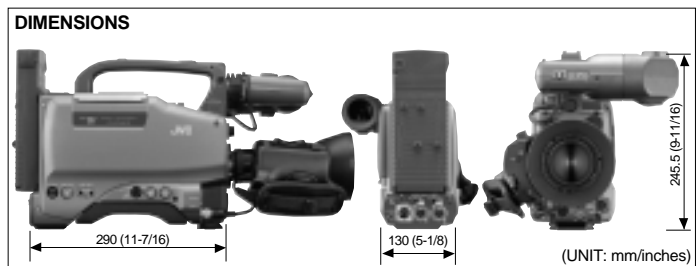
Compact, lightweight design

Only 3 kg (6.6 lbs.) for the main unit

Because it uses MiniDV tapes, the GY-DV700W is able to pack a lot of performance into a very compact body that weighs only 3 kg (6.6 lbs.). When fully loaded, it weighs only 5.5 kg (12.1 lbs.) or less including lens, viewfinder, battery pack and tape. The use of a DC-DC power supply trims the unit's dimensions still further.

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
- Sync lock mode
- Black stretch/compress
- Adjustable gamma point
- Adjustable detail frequency
- Time code reader/generator
- Built-in phantom microphone power



SPECIFICATIONS

GY-DV700WU (NTSC model)
GY-DV700WE (PAL model)

General

Power requirement: DC 10.5 V to 17 V
Power consumption: Approx. 20 W
Dimensions: 290 (W) x 245 (H) x 130 (D) mm (11-7/16" x 9-11/16" x 5-1/8")
Weight: 3 kg (6.6 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: 2/3" interline-transfer CCDs
Color separation optical system: F1.4, 3-color separation prism
Number of effective pixels: 480,000 (980 (H) x 494 (V))(NTSC)/570,000 (980 (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: 2/3" bayonet system
Optical filter: 3200K, 5600K, 5600K + 1/8ND/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

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-DV700WU)/PAL (GY-DV700WE)
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: 59 dB or more
Dynamic range: 79 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
Time code input/output
IEEE 1394 interface: 4-pin
RS-232C interface: Mini DIN 6-pin
VF connector: 20-pin
Genlock/video input: BNC
Earphone jack: Stereo mini-jack (monaural)

Included accessories

Instruction manual
Tripod mounting plate

Options

VF-P116WU/E 1.5" viewfinder
VF-P550W 5.5" 16:9/4:3 switchable B&W viewfinder
A19x8.7B12U 19:1 power zoom lens
A19x8.7BE12U 19:1 power zoom lens with x2 extender
A19x8.7BWU 19:1 power zoom lens
A16x9B12U 16:1 power zoom lens
A16x9BE12U 16:1 power zoom lens with x2 extender
YJ18x9BK12U 18:1 power zoom lens
AA-P250U/E AC power adapter/charger
NP-1 type battery

Design and specifications subject to change without notice.

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