

ProHD

Professional, Affordable, Versatile — JVC ProHD



HDV™
HDV 720p

GY-HD100 HD Compact Shoulder Camcorder

■ HDV/DV switchable (MiniDV Tape) ■ Multi-format video ■ Real 24p ■ 3-HD CCD image sensor ■ Detachable HD zoom lens (Bayonet mount): zoom/focus/iris mechanical control ■ Magnesium die-cast body ■ Detachable professional viewfinder ■ TC capability ■ External HDD capability ■ Set-up with SD memory card

BR-HD50 HD Spooler

■ HDV/DV switchable ■ Multi-format video output (Cross converter function) ■ IEEE1394 I/F ■ HDMI out ■ Durable chassis and mechanism ■ Professional operability ■ 8 digit large counter ■ RS-422 remote

**ProHD is a concept of JVC's affordable HD solution.*

JVC®

The Perfect Experience /

GY-HD100U/GY-HD100E/GY-HD101E

HD Compact Shoulder Camcorder

- HDV format
- Real 24p camcorder
- Interchangeable lenses
- 1/3" 3-CCD camera system
- Uncompressed 720P signal output
- Two XLR audio inputs
- Compact shoulder mount
- Smooth motion function
- Full Auto Shooting
- Color matrix
- Detachable 0.44-type 230,000-pixel LCD viewfinder
- Tri-mode 3.5 inch 250,000-pixel LCD display
- Camera settings recorded on an SD card
- IEEE 1394 interface
- Patented "FOCUS ASSIST" Function
- Variety of optional lenses
- Connect to an external HDD
- Built-in color bars generator

Specifications

[General]

Power requirements: DC 7.2 V
 Power consumption: Approx. 14 W (in the Record mode)
 Dimensions: 235 (W) x 232 (H) x 315 (D) mm
 (9-1/4" x 9-1/8" x 12-3/8")
 Weight: 3.1 kg (6.9 lbs.) (including lens (T16x5.5BRMU), 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: 1/3" interline-transfer CCDs
 Color separation optical system: F1.4, 3-color separation prism
 Number of total pixels: Approx. 1,110,000 pixels
 Color bars: SMPTE/EBU type
 Sync system: Internal sync (built-in SSG)
 Lens mount: 1/3" bayonet system
 ND filter: 1/4ND, +1/16ND

Gain: 0, 3, 6, 9, 12, 15, 18 dB, ALC

Electronic shutter:

Standard value: 59.94 Hz (GY-HD100U)/50 Hz (GY-HD100E/HD101E)
 Fixed values: 7.5 - 10,000 Hz, 11 steps (HDV HD30p/HDV SD60p/DV 60i mode: GY-HD100U only)
 6.25 - 10,000 Hz, 11 steps (HDV HD25p/HDV SD50p/DV 50i mode: GY-HD100E/HD101E only)
 6 - 10,000 Hz, 12 steps (HDV HD24p/ DV 24p: GY-HD100U only)
 6.25 - 10,000 Hz, 11 steps (DV 25p: GY-HD100E/HD101E only)
 Variable scan: 60.2 to 1,998.0 Hz (GY-HD100U)/50.2 to 1,973.7 Hz (GY-HD100E/HD101E), 48.12 to 1,998.0 Hz (HDV 24p/DV 24p: GY-HD100U only)

[VTR section]

Video

Recording format: 720/24p, 720/25p, 720/30p, 576/50p, 480/60p (GY-HD100U /HD100E /HD101E)
 480/24p, 480/60i (GY-HD100U) 576/25p, 576/50i (GY-HD100E /HD101E)
 Video Format:

[HDV]

Video signal recording format: HDV720p format, 8-bit, 19.7 Mbps
 Compression: MPEG-2 video (profile & level: MP@H-14)

[DV]

Video signal recording format: DV format, 8-bit, 25 Mbps
 Compression: DV compression, 4:1:1 (NTSC)/4:2:0 (PAL)

Audio

[HDV]
 Audio signal recording format: MPEG1 Audio Layer II, 2 channels

[DV]

Audio signal recording format: 16-bit (locked audio), 48 kHz PCM for 2 channels or 12-bit, 32 kHz PCM for 4 channels
 Usable tape: Mini DV tape
 Tape speed: 18.8 mm/sec.
 Record/play time: 63 minutes (with an M-DV63PROHD tape)

[Connectors]

Analog composite output: 1.0 V (p-p), 75 ohms, unbalanced (RCA)
 Analog component output:

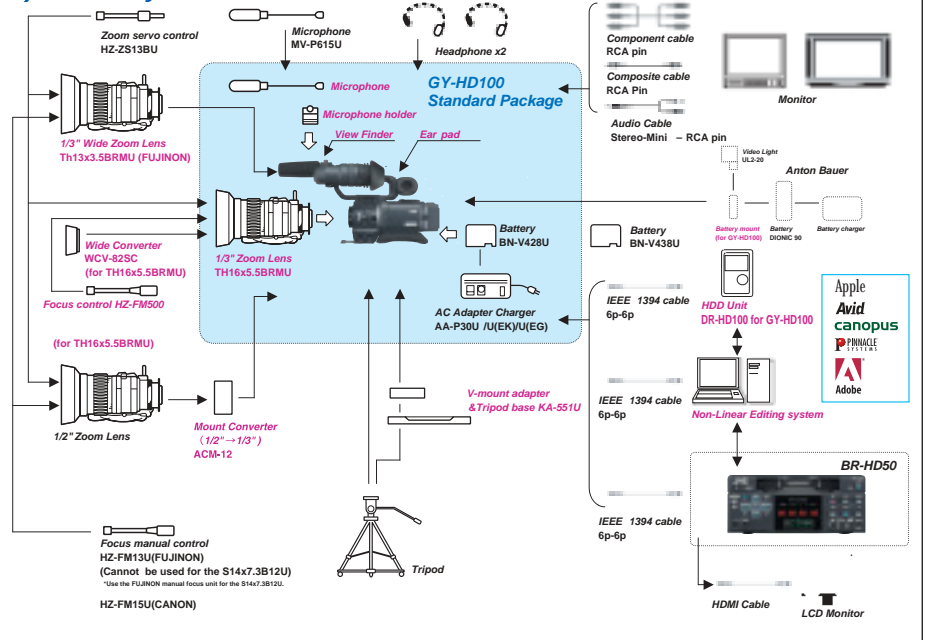
Y: 1.0 V (p-p), 75 ohms, unbalanced (RCA)
 Pb/Pc: 0.7 V (p-p), 75 ohms, unbalanced (RCA)

Audio inputs

Mic: -60 dBs, 3 kohms, balanced (XLR), +48 V output for phantom power supply

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System configuration



Line: +4 dBs, 10 kohms, balanced (XLR)
 Audio outputs: -6 dBs, low impedance, unbalanced (stereo mini-jack)
 Earphone jack: -17 dBs to -60 dBs, 8-ohm impedance (stereo mini-jack x2)
 IEEE1394 connector: 6-pin

[Accessories provided]

Battery (BN-V428) x 1, AC adapter/battery charger (AA-P30) x 1, Lens (T16x5.5BRMU) x 1, Microphone x 1

*GY-HD100U: IEEE1394 input/output

*GY-HD100E: IEEE1394 output only

*GY-HD101E: IEEE1394 input/output

BR-HD50U/BR-HD50E

HD Spooler

- HDV format
- Multi-format output/Cross-convert function
- HD 60 Hz/50 Hz compatibility
- Standard DV/Mini DV compatible mechanism
- DVCAM Playback capability (SD)
- Auto Error correction system
- Sweeper heads
- HDMI OUT
- RS-422A interface
- IEEE 1394 interface
- Y/C input/output and composite input/output
- Audio indicator
- High speed time code search/blank search
- Continuous recording

Specifications

[General]

Power requirements: DC 12 V (from provided 12 V, 3.5 A AC adapter)
 Power consumption: Approx. 20 W
 Dimensions: 212 (W) x 88 (H) x 327 (D) mm
 (8-3/8" x 3-1/2" x 12-7/8")
 Weight: Approx. 3.9 kg (8.6 lbs.)
 Temperature
 Operating: 5°C to 40°C (41°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

[Video]

Recording format: 720/24p, 720/25p, 720/30p, 576/50p, 480/60p
 (BR-HD50U /HD50E)
 480/24p, 480/60i (BR-HD50U) 576/25p, 576/50i (BR-HD50E)

Video Format:

[HDV]

Video signal recording format: HDV720p format, 8-bit, 19.7 Mbps
 Compression: MPEG-2 video (profile & level: MP@H-14)

[DV]

Video signal recording format: DV format, 8-bit, 25 Mbps
 Compression: DV format, 4:1:1 (NTSC)/4:2:0 (PAL)

[Audio]

[HDV]

Audio signal recording format: MPEG1 Audio Layer II

[DV]

Audio signal recording format: 16-bit (locked audio), 48 kHz PCM for 2 channels or 12-bit, 32 kHz PCM for 4 channels
 Usable tape: Standard/Mini DV tape
 Tape speed: 18.8 mm/sec.
 Record/play time: 276 minutes (with LA-DV276PRO tape),
 63 minutes (with an M-DV63PROHD tape)

[Connectors]

Video

[HDV]

Video outputs

Analog component: Y: 1.0 V (p-p), 75 ohms (BNC)
 Pb/Pc: 0.7 V (p-p), 75 ohms (BNC)

[DV]

Video inputs

Analog composite: 1.0 V (p-p), 75 ohms (BNC)
 Analog Y/C: Y: 1.0 V (p-p), 75 ohms
 C: 0.286 V (NTSC)/0.3 V (PAL) (p-p), 75 ohms (4-pin)

Video outputs

Analog composite: 1.0 V (p-p), 75 ohms (BNC)
 Analog Y/C: Y: 1.0 V (p-p), 75 ohms
 C: 0.286 V (NTSC)/0.3 V (PAL) (p-p), 75 ohms (4-pin)
 Analog component: Y: 1.0 V (p-p), 75 ohms (BNC)
 Pb/Pc: 0.7 V (p-p), 75 ohms (BNC)

Audio

Audio inputs

Line: -8 dBs, 10 kohms, unbalanced (RCA)

Audio output

Line: -8 dBs, 1 k-ohm, unbalanced (RCA)
 Headphones: ∞ to -15 dBs (8 ohms) (Stereo mini jack)
 HDMI output: 19-pin
 IEEE 1394 interface: 6-pin
 RS-422 interface: D-sub 9-pin
 Serial remote interface: Mini jack

[Accessories provided]

AC adapter (AA-G30) x 1, AC cable x 1

The values for weight and dimensions are approximate.
 Design and specifications subject to change without notice.



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