

GY-HD251E HDV Camcorder 24, 25, 50 Studio

Top-of-the-range, dual role studio & ENG / EFP camcorder with optional studio adapter



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Description

Top-of-the-range, dual role studio & ENG / EFP camcorder with optional studio adapter, offering HD SDI / SDI and 26 pin multicore connectivity. Live uncompressed 1080i and live uncompressed 720p are menu selectable as the HD SDI output, which is also carrying embedded audio and timecode. The DC power requirement is 12V which can be supplied either via the built-in V-plate battery mount or via AC adapter and the 4 pin XLR connector.

Main features

- 720p/50 & 60, 25 & 30, and 24 recording
- 1080i/50 and 720p/50 live, uncompressed output
- HD SDI and SDI with embedded audio and TC
- 12V system with built-in V-mount plate
- 14 bit A/D
- Timecode in/out. Genlock in

Additional features

- Remote control via 6 pin DIN
- Studio adaptor KA-HD250 option with 26 pin and HD SDI outputs
- Dynamic shading compensation
- Special cinema and cine-like gammas

Technical specs

Image pickup device:

1/3" inch interline-transfer CCDs

Optical system:

Colour separation system: F1.4, 3-colour separation prism

ND filter: +1/4ND, +1/16ND

No of pixels:

Total: Approx 1,110,000 pixels

Colour system:

PAL (wide band R-Y, B-Y encoder)

Colour bars: SMPTE HDTV colour bars / EBU colour bars

Sync system:

Internal sync (built-in SSG)

External sync: BB, VBS, signal or HD tri-sync signal

Sensitivity:

F8, 2000 lx (typical)

Minimum required illumination:

6 lx with F1.4, at 18 dB

Lens mount:

1/3" bayonet system

Gain:

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

Shutter speeds:

Electronic Shutter:

Standard value: 50 Hz

Fixed values:

7.5 - 10,000 Hz, 11 steps (HDV HD60p / HDV HD30p)

6.25 - 10,000 Hz, 11 steps (HDV HD50p / HDV HD25p; DV 50i/25p mode)

6 - 10,000 Hz, 12 steps (HDV HD24p / DV 24p)

Variable scan:

About 60 to 10,000 Hz (HDV HD60p / HDV HD30p) /

About 50 to 10,000 Hz (HDV HD50p / HDV HD25p; DV 50i/25p mode)

About 24 - 10,000 Hz (HDV HD24p; DV 24p)

Dynamic range:

300% or more

Recording formats:

720p/50 & 60, 25 & 30, and 24 recording Recording devices:

Recording system:

Built-in MinDV recorder. External optional Hard Disk Recorder DR-HD100E

VIDEO

HDV

Video signal recording format: HDV1 format, 8-bit, 19.7 Mbps

Compression: MPEG-2 video (profile & level: MP@H-14)

Sampling frequencies:

720/60p: 74.25/1.001 MHz (4:2:0 component)

720/50p: 74.25 MHz (4:2:0 component)

1080/60i: 74.25/1.001 MHz (4:2:0 component, cross conversion only)

1080/50i: 74.25 MHz (4:2:0 component, cross conversion only)

DV

Video signal recording format: DV format, 8-bit, 25 Mbps

Compression: DV compression, 4:2:0

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: Mini DV tape

Tape speed: 18.831 mm/sec.

Record/play time: 63 minutes (with an M-DV63PROHD tape)

CONNECTORS

HD/SD SDI output: 0.8 V (p-p), 75 ohms, unbalanced (BNC)

HD SDI: SMPTE292M/299M standard (embedded audio)

SD SDI: SMPTE259M/272M standard (embedded audio)

Analogue composite output:

1.0 V (p-p), 75 ohms, unbalanced (RCA)

Analogue component output:

Y: 1.0 V (p-p), 75 ohms, unbalanced (BNC)

R-Y / B-Y: 0.7 V (p-p), 75 ohms, unbalanced (BNC)

Analogue composite input:

1.0 V (p-p), 75 ohms, unbalanced (BNC: switchable from Genlock input)

Genlock input:

1.0 V (p-p), 75 ohms, unbalanced (BNC)

Audio input:

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

Line: +4 dBs, 10 kohms, balanced (XLR)

Audio output:

-8 dBs, low impedance, unbalanced (RCA)

Other:

unbalanced (BNC: switchable from component output)

Time code output: 0±6 dBs

Power requirement:

DC 12 V (10.5 - 17V)

Power consumption:

Approx 20W (in record mode)

Accessories

- [ACM-12](#)
- Mount converter 1/3" to 1/2"
- [ACM-17](#)
- Mount converter 1/3" to 2/3"
- [HZ-CA13U](#)
- 1/3" Mount, 16mm PL Film Lens
- [HZ-FM13U](#)
- Lens control, focus manual
- [HZ-FM15U](#)
- Lens control, focus manual
- [HZ-ZS100U](#)
- Remote Zoom Servo unit
- [HZ-ZS13BU](#)
- Lens control, zoom servo
- [IDX-200-E](#)
- IDX power package GY-HD2xx
- [KA-551U](#)
- Tripod Plate (V-wedge)

- [KA-HD250U](#)
- Studio Adaptor
- [RM-HP250DE](#)
- Remote Control Unit for GY-HD251
- [RM-LP25U](#)
- Remote Control Panel
- [RM-P210E](#)
- Remote Control CCU 26p
- [VC-P110U](#)
- Camera Cable 26p 5m
- [VC-P112U](#)
- Camera Cable 26p 20m
- [VC-P113U](#)
- Camera Cable 26p 50m
- [VC-P114U](#)
- Camera Cable 26p 100m
- [VF-HP840U](#)
- Studio Viewfinder
- [WCV-82SC](#)
- Wide Converter Th16x5.5
- [ZO-HD-ADAPT-LEI](#)
- Leica adapter 1/3" ProHD
- [ZO-HD-ADAPT-NIK](#)
- Nikon adapter 1/3" ProHD

Brochures and manuals



[**Brochure for GY-HD251E**](#)



[**ProHD and Professional DV Tapes Brochure**](#)



[**Instruction manual \(from the JVC Professional Europe Service Information System\)**](#)

Links

Miscellaneous