

GY-HM700E(A) HD Camcorder DV out, 14x lens

Introducing the GY-HM700, the world's first professional camcorder that natively records Apple's QuickTime® (MOV) file format for Final Cut Pro®. Files can be read directly into Apple's popular editing system, and for compatibility with other NLE systems, the GY-HM700 also supports now directly the MP4 file format.

Recording to twin SDHC memory cards, the GY-HM700 represents a new generation of camcorders that make continuous HD shooting and seamless software integration a reality.



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Description

Professional HD Camcorder with SDHC Media.

The GY-HM700 combines JVC's popular compact shoulder form factor with a new level of performance suitable for demanding applications in mainstream production, electronic newsgathering and cinematography. Weighing only 3.5kg including lens, viewfinder, microphone and battery, the GY-HM700 rests comfortably on the right shoulder providing stable, steady shots. Add to that the convenience of solid state recording, the economy of widely available SDHC media, and the world's fastest workflow, and it's easy to see why the GY-HM700 is today's most complete and versatile professional camcorder. The GY-HM700 utilizes three precisely aligned 1/3-inch progressive scan full HD CCDs - one each for red, green and blue primary color. JVC engineers have developed a unique 1/3-inch optical block

with Diagonal Offset and a patented exclusive Adaptive Pixel Correlation Technique that produces resolution comparable to cameras with larger image sensors.

JVC Original 35Mbps MPEG2 Encoder

Drawing from its experience in developing rack mount encoders used by major television stations, JVC developed a proprietary codec capable of providing highly efficient compression up to 35 megabits per second, a bitrate that can support full 1920 x 1080 sampling. This results in recorded images of exceptional quality. MPEG2 long GOP is the most widely accepted broadcast standard compression supported by all popular editing systems and broadcast servers. In the HQ mode, the encoder operates with a variable bit rate average of 35Mbps. The SP mode records at a constant bit rate of either 19.7Mbps or 25Mbps to ensure compatibility with a wide range of equipment. Compact Shoulder form factor. New patented 3-CCD optical system provides full HD resolution images. Industry standard bayonet lens mount. New high performance Canon 14:1 lens included: wider angle, higher resolution and minimal chromatic aberration.

Native File Recording

The GY-HM700 incorporates JVC's Native File Recording technology that stores video in the ready-to-edit file format used by Apple's Final Cut Pro non-linear editing system. The ".mov" files created in the camera can be easily dragged onto the NLE timeline without conversion or rewrapping, saving time while keeping the recorded material first generation. There is no need to use an intermediate codec.

Main features

- **NEW: Wider choice of recording formats on SDHC cards.**

In addition to "mov" Quicktime for Apple Final Cut now mp4 recording compatible with Avid, Adobe and Grass Valley is also supported.

- **NEW: Improved Signal Processing**
- Records to dual hot swappable SDHC memory cards and/or optional SxS adapter
- Pre Rec (retro cache) function prevents "missed shots"
- Professional recording with selectable data rates up to 35Mbps
1920 x 1080 (1080p24/p25/p30, 1080i60/i50)
1280 x 720P (p60/p50/p30/p25/p24)
- Native file recording world's fastest shoot-to-edit workflow.
- Native Final Cut Pro format Edit immediately without conversion or transcoding
- Available with optional SxS Media Recorder
- Variable frame rate recording (over crank, under crank)
- HDSDI output: can also provide down converted SDI output live or playback.
- Down converted SD output (DV via IEEE-1394)

Additional features

- New high resolution (1.22 million pixel) Liquid Crystal on Silicon (LCOS) viewfinder
- New large (4.3-inch) flip-out LCD monitor
- Patented Focus Assist function
- Built-in clip viewer and management system
- Extensive image customization modes (gamma, matrix, knee, detail, etc.)
- Uncompressed LPCM audio (2ch) recording
- Manual level controls with audio meter
- XLR inputs with phantom power

Technical specs

Image device:

1/3" Progressive scan 3CCD

Sync system:

Internal synchronization

Lens:

Canon F1.6, 14x, f=4.4-61.6mm (35mm conversion:32 to 448mm)

Lens mount:

1/3" bayonet

Gain:

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

LCD Panel:

4.3" LCD 800 x 480 pixels,

Viewfinder: 0.45 LCOS, 410,000 pixels

Recording formats:

PAL setting:

HQ mode:1920 x 1080/50i (.mov only), 25p

1440 x 1080/50i, 1280 x 720/50p, 25p

SP mode: 1440 x 1080/50i, 1280 x 720/50p, 25p

NTSC setting:

HQ mode:1920 x 1080/59.94i (.mov only), 29.97p, 23.98p,

1440 x 1080/59.94i, 1280 x 720/59.94p, 29.97p, 23.98p

SP mode: 1440 x 1080/59.94i, 1280 x 720/59.94p, 29.97p, 23.98

Audio Recording Format:

LPCM 2ch, 48kHz, 16-bit

Input/Output:

Video output: Composite output (480i or 576i, 4:3/16:9) (BNC)

Component output: (720p /1080i) (BNC x3)

SDI output: (480i or 576i :Downconverted/ 720p /1080i :embedded audio) (BNC)

IEEE1394 output: 4-pin (HD/Downconverted SD)

Audio input: XLR x2 (MIC,+48V/LINE)

Audio output: RCA x2

Headphone: j3.5mm mini jack x2

USB: USB2.0, mini B

Power requirement:

DC 12V (11-17V) , 20 Watt (Rec mode w/o optional periphereas)

Dimensions (WxHxD):

224 x 404 x 243mm

Weight:

Approx. 3.6kg (Including lens, viewfinder, microphone, battery)

Operating Temperature:

0°C to 40°C (-20°C to 60°C storage)

Operating Humidity:

30% to 80% (less 85% starge)

ACCESSORIES (Supplied)

Microphone x1

Accessories

- [ACM-12](#)
- Mount converter 1/3" to 1/2"
- [ACM-17](#)
- Mount converter 1/3" to 2/3"
- [DR-HD100E100GB](#)
- Hard Disk Recorder, 100GB
- [HTS18X4.2BRMM48](#)
- 1/3" HDTV lens 18x 4, 2-76mm
- [HZ-CA13U](#)

- 1/3" Mount, 16mm PL Film Lens
- [HZ-FM13U](#)
- Lens control, focus manual
- [HZ-FM15U](#)
- Lens control, focus manual
- [HZ-ZS13BU](#)
- Lens control, zoom servo
- [KA-551U](#)
- Tripod Plate (V-wedge)
- [KA-MR100G\(A\)](#)
- Media Recorder, XDCAM
- [KT20X5BKRS](#)
- 1/3" HDTV lens 20x
- [MR-HD100](#)
- Portable Media Recorder 100GB
- [MV-P615U](#)
- Mic, mono w. XLR connection
- [RM-LP25U](#)
- Remote Control Panel
- [RM-LP55U](#)
- Hand Remote Control Unit
- [RM-LP57U](#)
- Desk R/Control, HD200 & F550
- [TH13X3.5BRMU](#)
- 1/3" 3.5mm 13x w/a zoom
- [TH17X5BMD-D29](#)
- 1/3" HDTV lens 17x motorized
- [TH17X5BRM-29](#)
- 1/3" HDTV lens 17x

Brochures and manuals



[**GY-HM700 Product Info**](#)



[**Presse-Information-German**](#)



[**GY-HM700 brochure**](#)



[**GY-HM700 Brochure \(Printable version\)**](#)



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

Links

Miscellaneous