

Specifications

GY-HM700E

Power requirement: DC 12 V (11 V to 17 V)
 Power consumption: Approx. 23 W (during recording [when the camcorder + standard lens + LCD monitor are in use])
 Mass: Approx. 3.6 kg
 Temperature:
 Operating: 0°C to 40°C
 Storage: -20°C to 60°C
 Humidity:
 Operating: 30% to 80% RH
 Image pickup device: 3-chip 1/3" Progressive CCD
 Colour separation prism: F1.4, 3-colour separation prism
 Sync system: Internal sync (built-in SSG)
 Lens mount: 1/3" bayonet system
 ND filter: OFF, +1/4ND, +1/16ND
 Gain: 0dB, 3dB, 6dB, 9dB, 12dB, 15dB, 18dB, ALC
 Electronic shutter: 1/6 to 1/10000, EEI
 Minimum illumination: 1.25lx (typical) (1920x1080 mode, F1.4, +18dB, with 8-frame accumulation)
 LCD monitor: 4.3" LCD, 800 x 480 (WVGA, 410,000 pixels)
 Viewfinder: 0.45" LCOS, 1.22 Megapixels (852 x 480 x 3)
 Lens: Canon F1.6, 14x, f = 4.4-61.6 mm (35 mm conversion: 32 to 448 mm)
 Filter diameter: 82 mm
 Supported media: SDHC (Class 6)
 Slots: x 2
 Recording time: Approx. 25 minutes (8 GB SDHC card, 35 Mbps, VBR mode)

SDHC Class 6 recording time (approx.)

	MOV/MP4		
	SP		HQ
	720p	1080i	720p/1080i
4GB	22 min.	17 min.	12 min.
8GB	45 min.	35 min.	25 min.
16GB	1 hr. 30 min.	1 hr. 10 min.	50 min.
32GB	3 hr.	2 hr. 20 min.	1 hr. 40 min.

Recording file format: QuickTime[®] / File Format for Final Cut Pro[®] / MP4 File Format (w/KA-MR100)
 Recording format:
 Video: MPEG-2 long GOP
 HQ mode: VBR, 35 Mbps (Max) MPEG-2 MP@HL
 SP mode: CBR, 25 Mbps (1440x1080i)/ 19 Mbps (1280 x 720p24/25/30): MPEG-2 MP@H-14
 19 Mbps (1280 x 720p50/60): MPEG-2 MP@HL
 Audio: LPCM 2ch, 48 kHz/16bit
 Video frame rate:
 PAL settings:
 HQ mode: 1920 x 1080/50i, 25p, 1440 x 1080/50i (MOV only), 1280 x 720/50p, 25p
 SP mode: 1440 x 1080/50i, 1280 x 720/50p, 25p
 NTSC settings:
 HQ mode: 1920 x 1080/59.94i, 29.97p, 23.98p, 1440 x 1080/59.94i (MOV only), 1280 x 720/59.94p, 29.97p, 23.98p
 SP mode: 1440 x 1080/59.94i, 1280 x 720/59.94p, 29.97p, 23.98p
 Variable frame rate (HQ 720p mode):
 NTSC settings: 10/12/15/20/24/30/40/48/60 fps
 PAL settings: 10/12.5/20/25/40/50 fps

Analogue composite output (576i or 480i: Downconverted, 4:3/16:9): 1.0 V (p-p), 75-ohms, BNC (unbalanced)
 Component output (720p/1080i): Y: 1.0 V (p-p), 75-ohms Pb, Pr: 0.7 V (p-p), 75-ohms, BNC x 3 (unbalanced)
 SDI output terminal (576i or 480i: Downconverted/720p/1080i: embedded audio), BNC (unbalanced)
 HD-SDI: Compliant with SMPTE 292 M
 SD-SDI: Compliant with SMPTE 259 M
 Audio input:
 [MIC]: -60 dBu, 3k-ohms, XLR (balanced), +48 V output (phantom power supply)
 [LINE]: +4 dBu, 10k-ohms, XLR (balanced)
 Audio output: -8 ±1 dBu (when audio signal process output is -20 dB), 1k-ohms, RCA x 2 (unbalanced)
 Headphone: 3.5 mm mini jack (stereo) x 2
 Remote: DIN 6-pin
 IEEE1394 output: 4-pin
 USB: Mini USB-B type, USB 2.0, miniB, slave function (mass storage class) only
 Microphone x 1

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Simulated pictures.

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

JVC[®]



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JVC[®]

The Perfect Experience

ProHD

HD Memory Card Camcorder
GY-HM700E

Seamlessly Integrated



SD
 HD
 CLASS 6

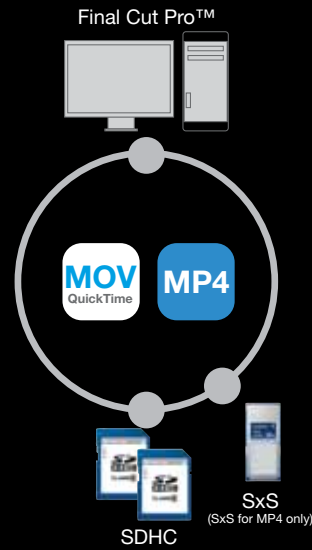
GY-HM700E

At Last, a Pro Camcorder that Speaks the Same Language as Your Editing System

The world's first native support for Final Cut Pro™

Introducing the GY-HM700E, the world's first professional camcorder that natively records Apple's QuickTime™ (MOV) file format for Final Cut Pro™. Forget transcoding and file wrapping – recorded files can be read directly into Apple's popular editing system for a workflow that's fast and smooth, with absolutely no loss of quality. And for compatibility with other NLE systems, the GY-HM700E also supports the MP4 file format.

Recording to twin SDHC memory cards, the GY-HM700E represents a new generation of camcorders that make continuous HD shooting and seamless software integration a reality.



Native File Recording

Record footage directly in ready-to-edit QuickTime™ MOV files, the native file format of Apple's Final Cut Pro™. Simply drag the files into the timeline and start editing. Alternatively, you can record MP4 files that are compatible with all major editing systems when used with optional SxS media recorder.



Reliable, Low-cost Media

The GY-HM700E uses standard, inexpensive and widely available SDHC Class 6 memory cards. These cards are small, light, robust and reliable, and can be read by your computer using any standard card reader. Also with the optional SxS media recorder, simultaneous shooting to SDHC and SxS memory is possible, providing an instant client copy and reliable backup solution.



The Choice of Broadcasting and Cinematography Professionals

Drawing on its long experience of developing dedicated encoders for the broadcasting industry, JVC has equipped the GY-HM700E with a brand new MPEG2 encoder capable of compressing full 1920 x 1080 HD video at up to 35 Mbps. The result is the pristine picture quality that professional users demand, from a surprisingly compact and lightweight shoulder-mount camcorder.

35 Mbps

Exceptional Image Quality

Encoding video at higher bit-rates means just one thing: higher image quality. The 35 Mbps data rate used by the GY-HM700E is high enough to support full 1920 x 1080 encoding, and results in stunningly detailed, broadcast-standard HD images.

JVC's newly developed 1080p Dynamic Digital Signal Processor (DDSP), is the engine that encodes the high bit-rate video signal into an MPEG2 stream and acts as a file compiler for QuickTime™ and MP4 files.



Photo courtesy of WXYZ-TV(ABC, Detroit)

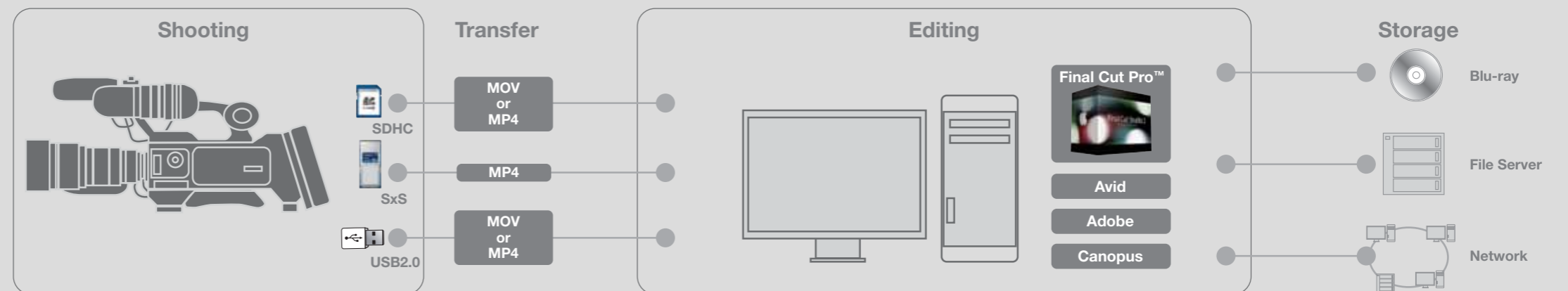
Photo courtesy of DirtyPoliticsTheMovie.com

Photo courtesy of DirtyPoliticsTheMovie.com

Photo courtesy of Waterman Broadcasting Corp.

Workflow

With Native File Recording, JVC has eliminated one of the main obstacles to achieving a smoother, more streamlined production workflow. Until now, getting footage into a file format that computer-based editing systems could work with was a time consuming process. With Native File Recording, your footage is ready to edit the moment it's shot.



Absolute Flexibility in a Compact Shoulder Camcorder

GY-HM700E

LCOS Viewfinder

The GY-HM700E features a stunning new 16:9 aspect ratio LCOS (Liquid Crystal on Silicon) viewfinder. Thanks to its high resolution, the LCOS viewfinder is crisper and more detailed than conventional LCD viewfinders.

1080p Dynamic Digital Signal Processor (DDSP)

JVC's new 1080p Dynamic Digital Signal Processor is the engine that drives the GY-HM700E. This highly efficient MPEG2 encoder processes video signals at up to 35 Mbps for full 1920 x 1080 progressive or interlace video.

Twin SDHC Card Slots

The GY-HM700E gives users the flexibility of twin SDHC memory card slots. When one card is full, the camcorder switches automatically to the other card with no drop out, making possible true continuous shooting. Memory cards are hot swappable, so cards can be removed for editing without interrupting the shoot. For even greater flexibility, the optional SxS media recorder makes possible simultaneous recording to both SxS and SDHC media.



Canon 14x HD Lens

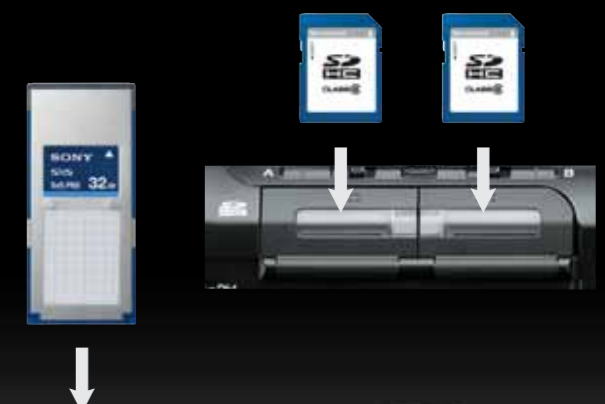
The GY-HM700E comes with a new, high-performance 14x HD lens from Canon, based on the superb optics found in more expensive HD lenses. From wide angle through to telephoto, the lens has pin-sharp focusing accuracy and constant image brightness with no F-drop.

Three 1/3-inch Progressive CCD Design with Triplex Offset

High definition is all about image quality. The newly designed 1/3" progressive CCDs together with JVC's original Triplex Offset and an Adaptive Pixel Correlation Technology that produces resolution and colour comparable to cameras with larger image sensors.

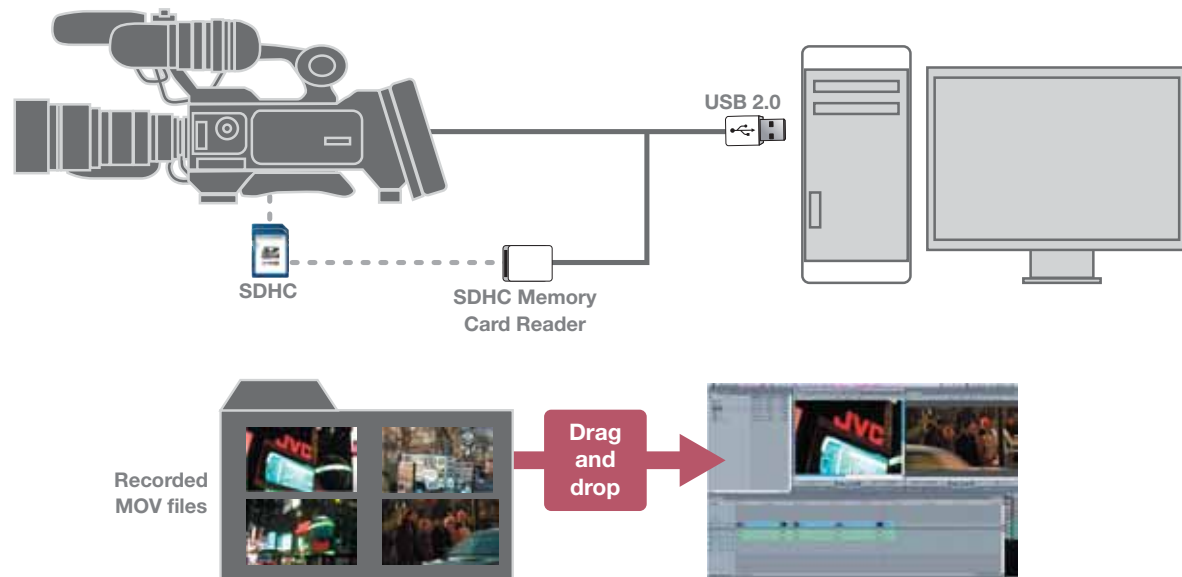
4.3-inch LCD Monitor

The large 16:9 aspect ratio LCD monitor and redesigned GUI bring ease of use to a new level for a professional camcorder.



MOV File Workflow

Direct file access to Apple's Final Cut Pro™



ProHD Software

JVC ProHD Clip Manager

The ProHD Clip Manager, for both Mac and Windows, makes it easy to manage MP4 clips on the GY-HM700E's memory cards from your PC. With a few clicks of the mouse you can copy, move or delete clips, preview clip content, as well as view and edit clip metadata. A thumbnail view of all the clips in the current folder shows the content of each clip at a glance. Use the viewer to watch the whole clip, or change the clip's index frame used for the thumbnail. You can also manage folders to keep your clips organised, and check the remaining free space on a card.

ProHD Log and Transfer Plug-in

The ProHD Log and Transfer Plug-in is a software for Apple's Final Cut Pro™ that lets you drop MP4 files recorded on the GY-HM700E into the clip bin of Final Cut Pro™. With the plug-in installed, you can view thumbnails of the MP4 files on a memory card from the Log and Transfer screen of Final Cut Pro™. Simply drag and drop the thumbnails into the bin to automatically convert the clips to QuickTime™ format, ready for use.

Main screen for Windows®



Information window Viewer window

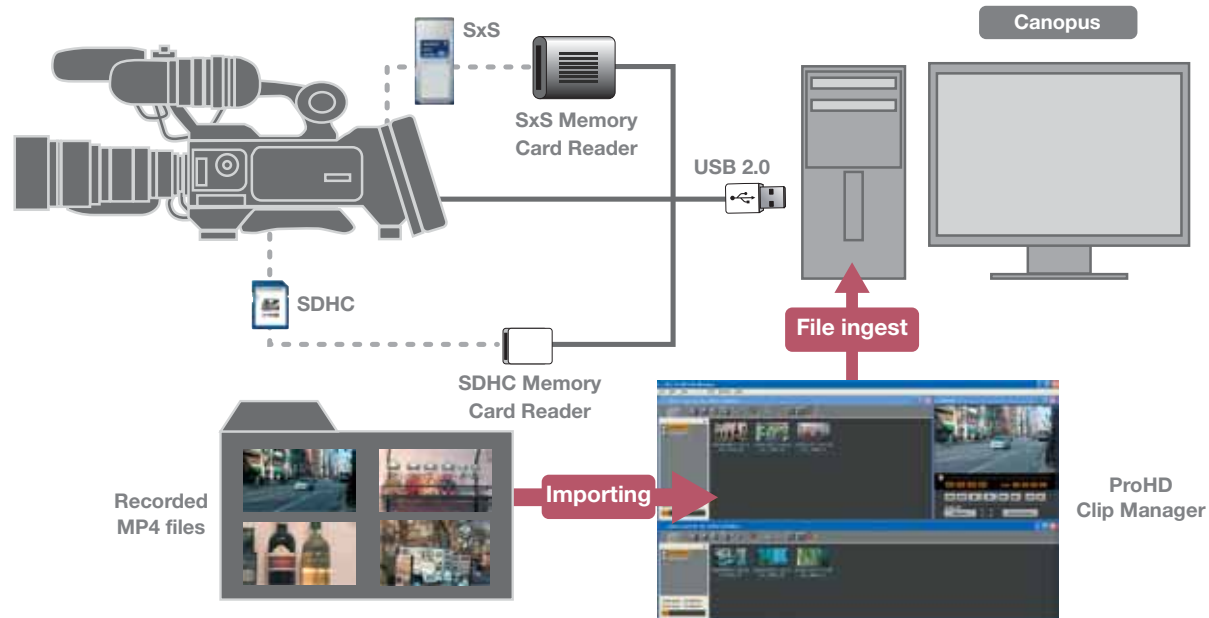
Log and transfer screen



Ingest Logging

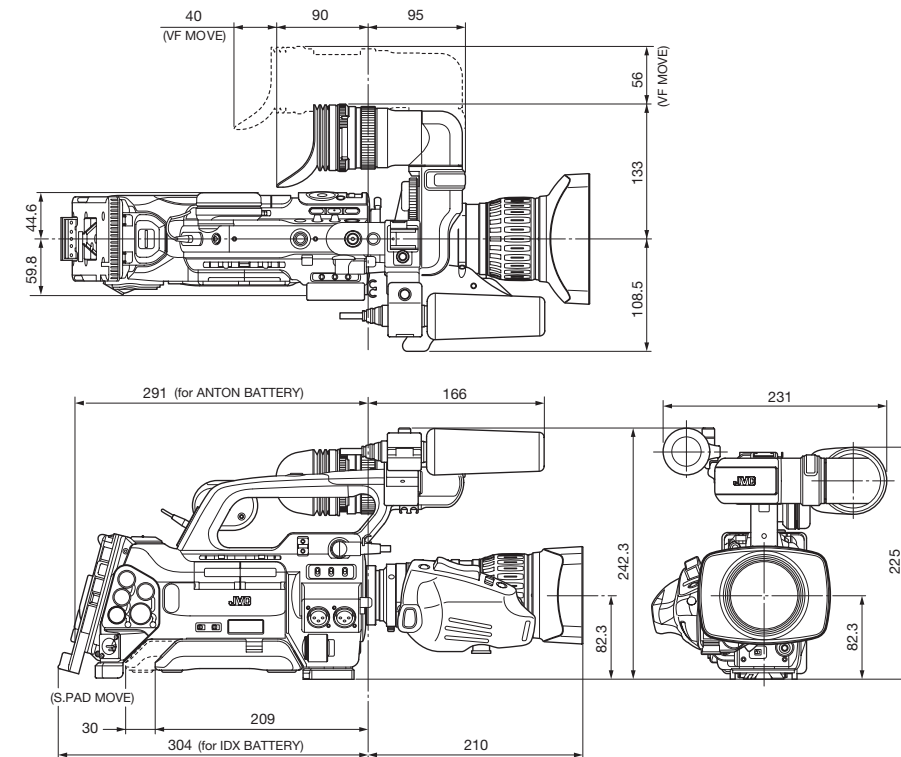
MP4 File Workflow

Ingest MP4 clips to major NLE systems

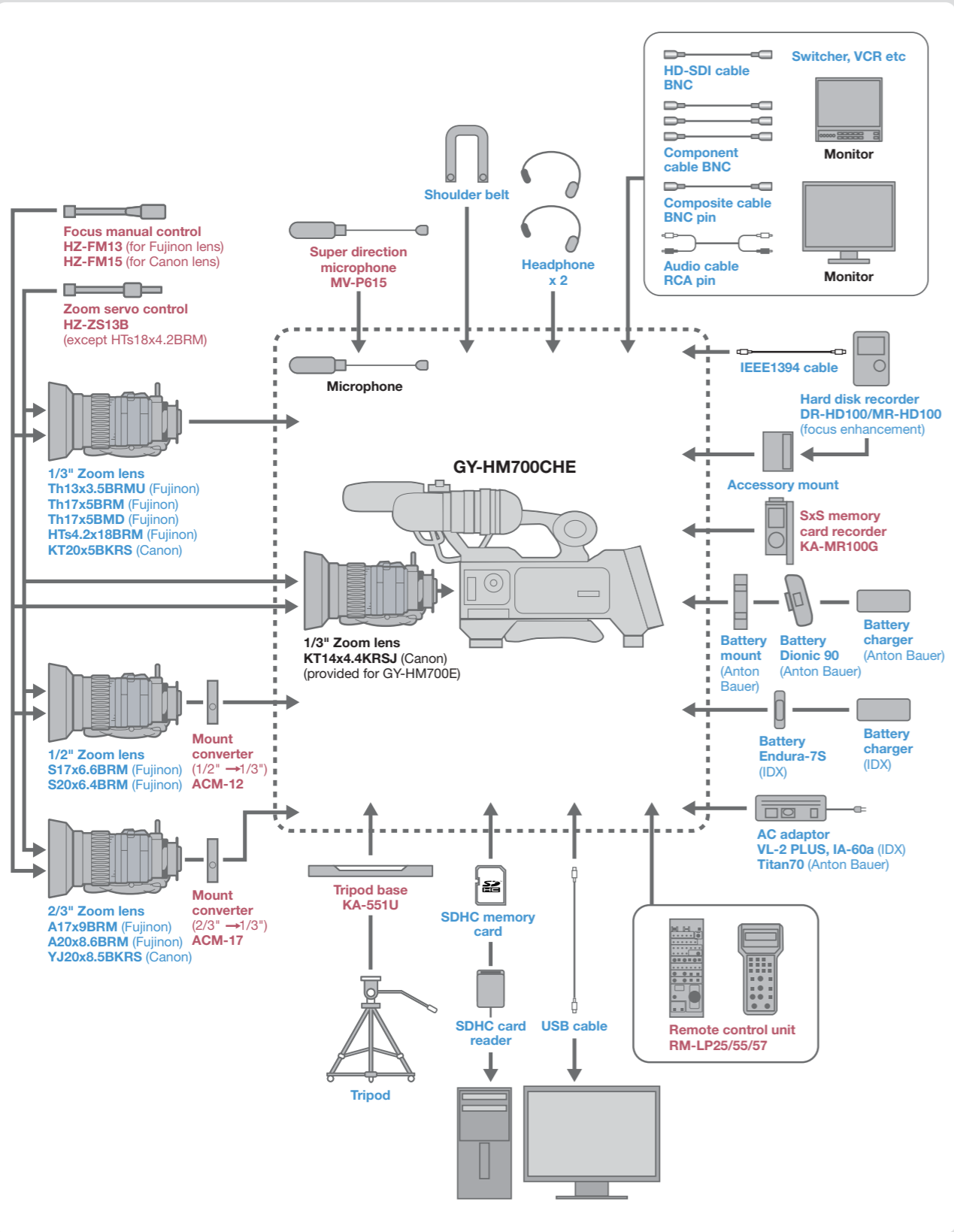


Dimensions

Unit: mm



System Configuration



Optional Accessories

<p>KT20x5BKRS 1/3" High quality zoom lens</p>	<p>HTs18x4.2BRM HTs18x4.2BERM (2x extender) 1/3" High quality zoom lens</p>	<p>Th17x5BRM 1/3" Zoom lens</p>	<p>Th17x5BMD 1/3" MD Zoom lens</p>
<p>Th13x3.5BRM 1/3" Wide zoom lens</p>	<p>HZ-CA13U 16mm film lens adapter</p>	<p>ACM-17 2/3" Bayonet mount converter ACM-12 1/2" Bayonet mount converter</p>	<p>MV-P615 Super direction microphone</p>
<p>HZ-ZS13BU Manual zoom control Cannot be used for HTs18x4.2BRM lens. Use Fujinon ZMM-6: Module unit/CZH-14: Grip/CFC-12-990: Cable/MCA-7: Mounting clamp</p>	<p>HZ-FM13U (Fujinon) HZ-FM15U (Canon) Manual focus control</p>	<p>KA-551U Tripod base V-mount adapter</p>	<p>RM-LP25U (Desk mount) RM-LP55U (Handheld) RM-LP57U (Desk mount) Remote control unit 6-pin DIN</p>
<p>Endura-E-7S (Battery) IDX V-mount battery</p>	<p>VL-2PLUS (Charger) IDX V-mount battery charger / AC adapter</p>	<p>Dionic 90 (Battery) Anton Bauer battery</p>	<p>Tandem 70 (Charger) Anton Bauer battery charger / AC adapter</p>
<p>KA-MR100G SxS memory card recorder</p>	<p>DR-HD100E100GB Hard disk drives For m2t or SD video file recording only.</p>	<p>MR-HD100U Hard disk drives For m2t or SD video file recording only.</p>	<p>DT-V24L3U / V20L3U / V17L3U / V9L1U LCD HDTV monitor</p>