

JVC®

The Perfect Experience

ProHD Memory Card Camcorder

GY-HM710U

ProHD



The Future in Your Hands

A Perfect Fit for HD and SD workflows

The GY-HM710U is a professional dual-slot memory card camcorder designed for both HD and SD production. It natively records Apple's QuickTime™ (MOV) file format for Final Cut Pro™, and for compatibility with other systems, it also supports HD MP4 and SD AVI file recording.

The above picture shows the GY-HM710U with the optional battery.

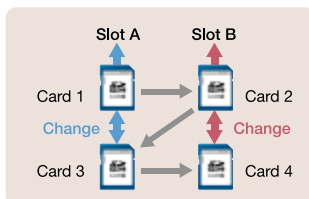
Switchable HD/SD recording to dual SDHC cards



Native DV recording is supported for compatibility during the transition period from SD to HD, so there is none of the picture quality deterioration typically seen when converting to SD when recording or in post production.

The camera provides 2 memory card slots, for up to 4.5 hours* of continuous HD recording. For virtually unlimited recording length, cards can be hot swapped while shooting.

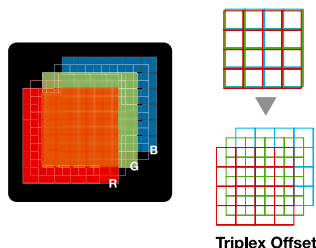
* SP mode, 32GB card x 2.



JVC original triplex offset technology and adaptive pixel correlation technology



Superior high-resolution images and rich color reproduction are assured with three discrete 1/3" progressive-scan CCDs and JVC's original Triplex Offset and Adaptive Correlation technologies.



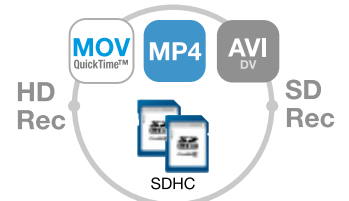
Canon 14x HD Lens

The GY-HM710U is equipped with a high-performance 14x HD lens from Canon, based on the superb optics found in more expensive HD lenses.

35Mbps image processing and native file recording for all major NLE systems



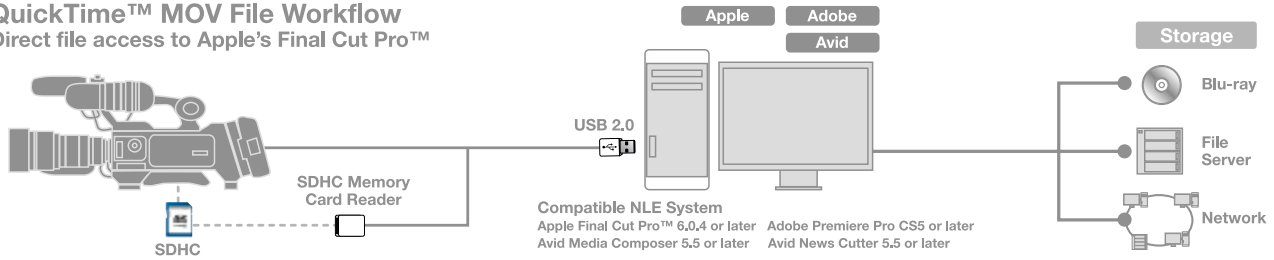
JVC's original Dynamic Digital Signal Processor (DDSP) is capable of highly efficient compression up to 35 Megabits per second to deliver a full progressive 1920 x 1080 signal for outstanding image quality in any shooting mode. And thanks to the native file recording technology, video clips are stored in ready-to-edit file formats, including MOV (for Apple's Final Cut Pro™) and Sony XDCAM EX™ workflow-compatible MP4 (for other major NLE systems such as Avid Media Composer/ Adobe Premiere CS5/Canopus Edius Pro). SD recordings can be saved as ready-to-edit MOV or AVI files.



* MP4 is the compliant file format used on the XDCAM EX™.
** Playback compatibility, not guaranteed on all products due to variation of supported recording mode.

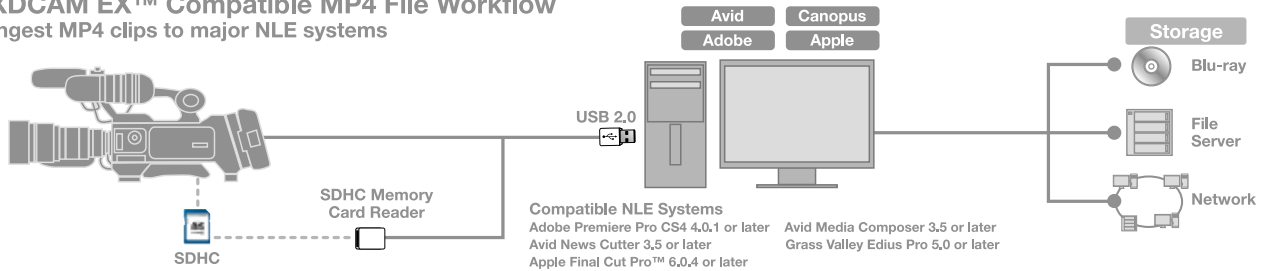
QuickTime™ MOV File Workflow

Direct file access to Apple's Final Cut Pro™



XDCAM EX™ Compatible MP4 File Workflow

Ingest MP4 clips to major NLE systems



Specifications

[General]

Power requirement: DC 12 V (11 V to 17 V)
 Power consumption: Approx. 24 W (during recording [when the camcorder + standard lens + LCD monitor are in use])
 Mass: Approx. 3.4 kg (7.7 lbs.)
 Temperature:
 Operating: 0°C to 40°C (32°F to 104°F)
 Storage: -20°C to 60°C (-4°F to 122°F)
 Humidity:
 Operating: 30% to 80% RH
 Image pickup device: 3-chip 1/3" Progressive CCD
 Color separation prism: F1.4, 3-color 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 or 10)
 Slots: x 2
 Recording time: Approx. 25 minutes (8 GB SDHC card, 35 Mbps, VBR mode)

■ SDHC Class 6 or 10 recording time (approx.)

	MOV/MP4		MOV/AVI
	SP	HQ	SD
	1080i	1080i	480i
4GB	17 min.	12 min.	15 min.
8GB	35 min.	25 min.	30 min.
16GB	1 hr. 10 min.	50 min.	1 hr.
32GB	2 hr. 20 min.	1 hr. 40 min.	2 hr.

[Video/Audio]

Recording file format: QuickTime™ File Format for Final Cut Pro™ (HD/SD)/MP4 File Format (HD)/AVI File Format (SD)

Recording format:

HD Video: MPEG-2 long GOP
 HQ mode: VBR, 35 Mbps (1920 x 1080i60, p24/30) MPEG-2 MP@HL
 SP mode: CBR, 25 Mbps (1440 x 1080i60)
 SD Video: DV compression 4:1:1, 8-bit, 25Mbps
 Audio: LPCM 2ch, 48 kHz/16bit; SD LPCM 2 ch, 48kHz/16-bit

Video frame rate:

HD HQ mode: 1920 x 1080/59.94i, 29.97p, 23.98p, 1440 x 1080/59.94i
 HD SP mode: 1440 x 1080/59.94i
 SD mode: 480/59.94i

[Connectors]

Analog composite output (480i [SD mode or downconverted in HD mode]):

1.0 V (p-p), 75-ohms, BNC (unbalanced; switchable from analog component Y output)

Analog component output (480i [SD mode or downconverted in HD mode], 1080i [HD mode]): Y: 1.0V (p-p), 75-ohms Pb, Pr: 0.7V (p-p), 75-ohms, BNC x 3 (unbalanced)

SDI output terminal (480i [SD mode or downconverted in HD mode],

1080i [HD mode]; embedded audio), BNC (unbalanced)

HD-SDI: Compliant with SMPTE 292 M

SD-SDI: Compliant with SMPTE 259 M

Audio input:

[MIC]: -60 dBμ, 3k-ohms, XLR (balanced), +48 V output (phantom power supply)

[LINE]: +4 dBμ, 10k-ohms, XLR (balanced)

Audio output: -8±1 dBμ (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-B x 1, USB 2.0, Mini-B, slave function (mass storage class) only

[Accessories Provided]

Microphone x 1

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