

HD/SD Memory Card Camcorder

## **GY-HM620**





Supreme Handheld Mobile News Camera



















# The Camcorder Still Evolving — Enhanced Operability to Make the Most of Any Moment

The GY-HM620 is an advanced handheld ProHD camera that delivers unsurpassed imagery and other features for news, sports, and independent production. The new 620 has upgraded CMOS devices for greater sensitivity and a brighter LCD display for outdoor daylight viewing. Versatile and extremely easy to use, there's no better camera for fast-paced HD field production.



## Newly developed 1/3-inch 3CMOS Sensor (1920 x 1080) boasts Sensitivity of F12/F13 (60/50Hz)

At the heart of the GY-HM620 are three, newly developed 1/3-inch CMOS sensors with 2.5M pixels, each capable of capturing full HD 1920 x 1080 resolution images. Featuring 12-bit processing, an excellent sensitivity of F12 (60Hz) /F13 (50Hz) at 2000 lux, and a remarkable signal-to-noise ratio, the devices provide superior precision and color reproduction with minimal aberration. For improved CMOS sensor performance, flash-band compensation is also supported.





Compare the image brightness between sensitivity of F8 (left) of a conventional camera and F13 (50Hz) at 2000 lux on the GY-HM620.

## Revolutionary FALCONBRID™ Image Processing Engine

FALCONBRID<sup>TM</sup> is JVC's high-speed processor for advanced video applications. Delivering tremendous processing power on a single chip, the on-board engine is capable of processing large amounts of video data at exceptional speeds. The combination of FALCONBRID<sup>TM</sup> engine, 2D DNR processing & compensation circuitry, and wide dynamic range achieve superior image quality.



FALCONBRID.

#### 23x Fujinon Auto Focus Zoom Lens with Manual Functions

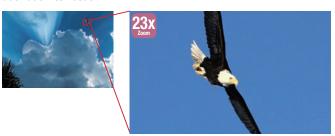
The GY-HM620 is equipped with the Fujinon wide angle 23x optical zoom lens to offer sufficient magnification for shooting. Delivering superior low-light performance and ensuring brightness at the tele end, the lens offers F1.6-3.0, a focal range of 29mm-667mm





Focus, zoom and iris rings are isolated and ergonomically aligned with buttons offering intuitive, stress-free operations.

(35mm equivalent) and includes servo zoom, manual focus, and iris rings, along with a four-position (clear, 1/4, 1/16 and 1/64) ND filter. Other features include an optical image stabilizer and chromatic aberration correction.



23x zoom lens, sufficient magnification for shooting, at Wide end (left) on to Tele end (right).

#### Upgraded High-resolution 920K Pixels 3.5-inch LCD Display with Focus Assist and various GUI

The high-resolution 920K pixels 3.5-inch LCD monitor provides a wide aspect ratio of 16:9 with a wide array of monitoring and setup indications. Since the LCD is top-mounted, not only is it ideal for shooting at various angles but also provides ample distance from the cameraman's eyes to the LCD to achieve better visibility in handheld camera applications. It also features a Focus Assist function that

highlights the edges of objects shown in the viewfinder in color (red, green or blue) to help the cameraman stay focused on the action.







When the Focus Assist function is set to ON, objects that are in focus appear with colored edges (selectable from red, green or blue) as seen here.





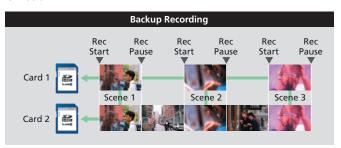
Audio equalizer

Color matrix adjustment

#### **Dual SDHC/SDXC Card Slots for Maximum Versatility**

Dual SDHC/SDXC card slots make the GY-HM620 a truly versatile camcorder, offering such benefits as series recording, dual recording, and backup recording modes with reliable and cost-effective media.

- Series (relay) recording mode: Continuous recording card by card.
- **Dual (simultaneous) recording mode:** Recording to 2 cards at same format for backup or multi-purpose.
- Backup recording mode: While the Rec trigger is used to REC and STOP recording on one card, the other card can act as a continuous backup that overrides the pause function.\* This is a unique mode highly demanded by the
  - \*During simultaneous backup recording in HD mode, the duplicate file records in the same file format and bit rate as the original.



#### Various Codecs and File Formats including the Original H.264 XHQ (50Mbps) mode

FALCONBRID™ engine is capable of supporting major file formats such as .MOV with Apple Final Cut Pro, .MP4 of XDCAM EX™ cameras, and .MTS for AVCHD compatibility, as well as high-definition images in MPEG-2 35Mbps (HQ) and AVCHD 28Mbs (Progressive) format.

Furthermore, the processor also supports H.264 video format in 50Mbs extreme high quality (XHQ) mode for virtually no block noise and to capture high-speed moving subjects.

Video format		MPEG-2					∆\/C <b>H</b> D	H.264				
Mode (Bit rate)		HQ (35Mbps)	SP (25Mbps)	SP (19Mbps)	Progressive (28Mbps)	HQ (24Mbps)	SP (18Mbps)	LP (9Mbps)	EP (5Mbps)	XHQ (50Mbps)	UHQ (35Mbps)	SD (8Mbps)
File format		MOV/MP4					MTS	MOV				
Audio format		Linear PCM 2ch					AC3 2ch	Linear PCM 2ch				
HD	1920 x 1080	60i/50i/ 30p/25p/24p			60p/50p	60i/50i	60i/50i			60p/60i/ 50p/50i/ 30p/25p/24p	60i/50i/ 30p/25p/24p	
	1440 x 1080	60i/50i/	60i/50i					60i/50i	60i/50i			
	1280 x 720	60p/50p/ 30p/25p/24p*1		60p/50p								
SD	720 x 480											60i*²/50i*³

\*1: Only with MOV/M4 file formats \*2: U only \*3: E only

#### Just for Professional Utility - Cutting-edge Connectivity including SDI (HD/SD) Out

Equipped with leading edge connections, the GY-HM620 offers versatility while meeting the needs of professional applications. For easy monitoring of footage, you can monitor from the digital SDI and HDMI outputs simultaneously, easily switching between output in HD or SD.

•SDI (HD/SD) out
•HDMI (HD/SD) out

(60p support)

- AV out
- •USB (Device x1)
- XLR 3-pin x2
- •TC Sync in/out (MIC
- (MIC, +48V <phantom power>, LINE)
- Aux in for Wireless Receiver
- •ø2.5mm Remote Control
- •ø3.5mm Stereo Headphone out



Optional Accessories



SSL-JVC50 Standard Li-ion Battery (IDX) DC7.4V, 4900mAh, 37Wh



SSL-JVC75 Long-life Li-ion Battery with D-TAP Connector (IDX) DC7.4V, 7350mAh, 55Wh



7.4V 2-ch Simultaneous Charger (IDX)

#### **◆** Specifications

Video codec File format	DC12V (AC adapter), DC7.4V (Battery)  Approx. 10 W (with VF in REC mode, default setting)  177.5 mm (W) x 197 mm (H) x 415.5 mm (D)  approx. 2.4 kg (including battery)  0°C to 40°C (32°F to 104°F)  -20°C to 50°C (14°F to 122°F)  30% to 80%  under 85%  1/3" CMOS 2.5M pixels  Internal synchronization  Optical image stabilizer  F1.6 (wide) to F3.0 (Tele) f=4.1mm to 94.3mm (f=29 mm to 667mm (35mm equivalent))  72mm  1/6 - 1/10000, EEI  (-6, -3: Extended mode only), 0, 3, 6, 9, 12, 15, 18,21,24 dB, Lolux (30,36 dB), AGC  none, 1/4, 1/16, 1/64  3.5-inch 920 k pixels, 16:9  0.45-inch 1.22 M pixel, 16:9  2x SDHC/SDXC memory card (HD: Class 6/10 AVCHD/SD/Web: Class4)  MPEG-4 AVC/H.264 (HD/SD), MPEG-2 Long GOP VBR (HD)					
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File format	MPEG-2 Long GOP CBR (HD), AVCHD (HD/SD)					
	MOV, MP4, MTS (AVCHD)					
	NTSC setting: HQ mode:1920 x 1080/59.94i, 29.97p, 23.98p, 1440 x 1080/59.94i					
HD (MPEG-2 Long GOP VBR)	1280 x 720/59.94p, 29.97p, 23.98p (Max 35Mbps)					
HD (IMPEG-2 Long GOP VBK)	PAL setting: HQ mode: 1920 x 1080/50i, 25p, 1440x1080/50i					
	1280 x 720/50i, 25p (Max 35Mbps)					
LID (MADEC 3 Long COD CDD)	NTSC setting: SP mode: 1440x1080/59.94i, 1280x720/59.94p (18.3Mbps)					
HD (MPEG-2 Long GOP CBK)	PAL setting: SP mode: 1440x1080/50i, 1280x720/50p (18.3Mbps)					
	NTSC setting: XHQ mode: 1920x1080/59.94p, 59.94i, 29.97p, 23.98p (Max 50Mbps)					
UD (U 364)	1920x1080/59.94i, 29.97p, 23.98p (Max 35Mbps)					
HD (H.204)	PAL setting: XHQ mode: 1920 x 1080/50p, 50i, 25p (Max 50Mbps)					
	1920 x 1080/50i, 25p (Max 35Mbps)					
	NTSC setting: Progressive mode (Max 28Mbps): 1920 x 1080/59.94p					
	HQ mode (Max 24Mbps): 1920 x 1080/59.94i, SP mode (Max 18Mbps): 1920 x1080/59.94i					
AVCHD	LP mode (9Mbps): 1440 x 1080/59.94i, EP mode (5Mbps): 1440 x1080/59.94i					
	PAL setting: Progressive mode (Max 28Mbps): 1920 x 1080/50p					
	HQ mode (Max 24Mbps): 1920 x 1080/50i, SP mode (Max 18Mbps): 1920 x1080/50i					
	LP mode (9Mbps): 1440 x 1080/50i, EP mode (5Mbps): 1440 x1080/50i					
SD (H 364)	NTSC setting: 720 x 480/59.94i (GY-HM620U)					
3D (11.204)	PAL setting: 720 x 576/50i (GY-HM620E)					
	LPCM 2ch, 48kHz/16-bit (MOV/MP4), Dolby Digital, 2ch (AVCHD)					
	AV output (ø3.5mm mini jack x1)					
	SDI output (BNC x1)					
	HDMI output x1					
	XLR x2 (MIC,+48V/LINE), ø3.5mm mini jack x1					
	AV output (ø3.5mm mini jack x1)					
	ø3.5mm mini jack x1					
	ø2.5mm mini jack x1					
	RCA x1					
	DEVICE x1 (Mass storage)					
	DEVICE x1 (Mass storage)					
	HD (MPEG-2 Long GOP CBR)  HD (H.264)  AVCHD  SD (H.264)					

#### ◆ SDHC Class 4/6/10, SDXC recording time (approx.)

			MOV/MP4				MTS	MOV				
		MPEG-2/HD					AVCHD	H.264/HD		H.264/SD		
		HQ	SP		HQ Progressive	HQ	SP	LP	EP	XHQ	UHQ	SD
		720p/ 1080i	1080i 720p		1080p	1080i				1080p/i		480i
	4GB	12m	17m	22m	16m	19m	25m	46m	1h 22m	9m	12m	47m
	8GB	25m	35m	45m	33m	38m	50m	1h 35m	2h 48m	18m	25m	1h 35m
	16GB	50m	1h 10m	1h 30m	1h 7m	1h 18m	1h 40m	3h 10m	5h 36m	36m	50m	3h 10m
	32GB	1h 40m	2h 20m	3h	2h 15m	2h 36m	3h 20m	6h 20m	11h 12m	1h 12m	1h 40m	6h 20m
	64GB	3h 20m	4h 40m	6h	4h 30m	5h 12m	6h 40m	12h 40m	22h 24m	2h 25m	3h 20m	12h 40m
1	128GB	6h 40m	9h 20m	12h	9h	10h 32m	13h 20m	25h 20m	44h 48m	4h 50m	6h 40m	25h 20m

Notes: • Recording times are estimate. • Recommended SDHC/SDXC memory card brands: Panasonic, Toshiba, and SanDisk
• SDHC Class 10 enabled only in XHQ mode; SDHC Class 4 enabled in AVCHD mode.

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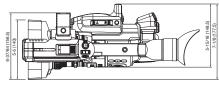
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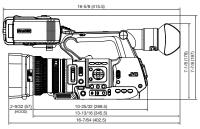
All screen pictures in this brochure are simulated.

#### Dimensions

Unit: inches (mm)







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



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