

# JVC

HD Memory Card Camcorder

# GY-HM70

## ProHD



Shown with optional microphone MZ-V10

## *Professional, Dependable Performance*

- *Dual Solid State Memory*
- *Dual Battery System*
- *Shoulder Form Factor*





\* Images are shown with optional microphone MZ-V10

## Professional and Durable Performance



Optical Image Stabilizer  
Focus Ring

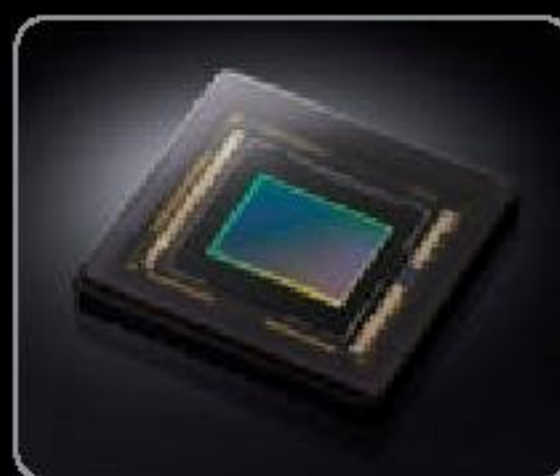
Manual Operation Buttons  
(Iris, White balance, Shutter, Focus, etc.)

### Capture Every Scene in Bright and Stunning Detail

Capture every scene in stunning clarity and brightness with the on-board shooting capabilities of the GY-HM70. Brighter and faster than conventional lenses, the dynamic 16x F1.2 bright lens delivers professional results in low light environments, providing brilliant results when shooting interviews, weddings and special events, or stage plays without the need for additional lighting. Low light sensitivity is further enhanced by the onboard features, which deliver clear images with precise colours when indoors or in dark situations. The 29.5mm GT lens was developed specifically to match the 1/2.3-inch 12 Megapixel back-illuminated CMOS sensor, yielding high resolution, high sensitivity and excellent colour reproduction.



29.5mm Wide Angle Lens



1/2.3-inch 12M Back-illuminated CMOS Sensor

### Flexible Recording Formats and Powerful Processing

With the kind of flexibility demanded for by professionals, the GY-HM70 covers all of the bases with both SD and HD production workflows. Recording is possible in silky-smooth AVCHD Progressive 1920 x 1080 60p (GY-HM70U)/50p (GY-HM70E) Full HD resolution as well as in standard definition, providing exceptional image quality and workflow versatility. This remarkable recording flexibility is supported by FALCONBRID™, JVC's high-speed processor for advanced video applications. Delivering tremendous processing power on a single chip, the on-board FALCONBRID™ engine processes large amounts of video pixel data at exceptional speeds.

1920 x 1080  
60p/50p



FALCONBRID™

### High Resolution Output for Stills and Video

In order to capture your subjects in spectacular detail, it is possible to shoot stills in 12 megapixel Ultra High Resolution, while stills and video can be shot simultaneously in 2 megapixel resolution.

	AVCHD Format
HD Recording	1920 x 1080/60p (GY-HM70U), 50p (GY-HM70E) 28Mbps
	1920 x 1080/60i (GY-HM70U), 50i(GY-HM70E) 24/17/12/5Mbps
SD Recording	720x480i(GY-HM70U), 720x576i(GY-HM70E) 6/3Mbps





0.24-inch Viewfinder

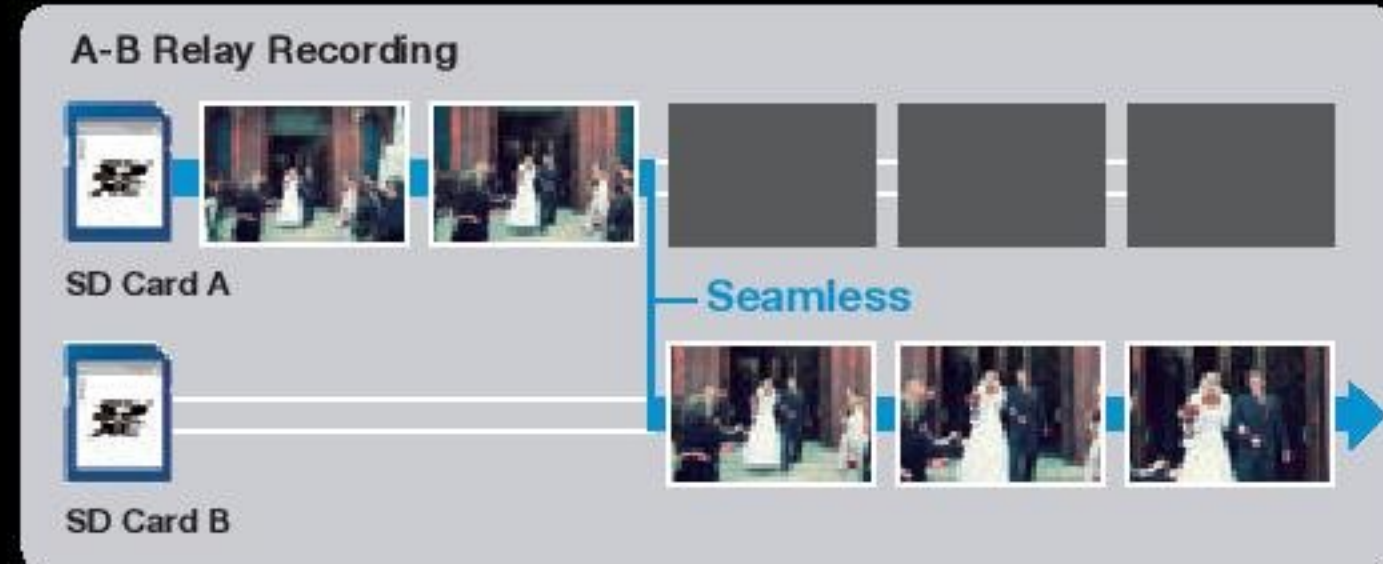
3.0-inch Touch Panel LCD

## Shoot with Confidence Using Dual SD Card Slots and Automatic Card Slot Relay

For maximum flexibility and convenience, the GY-HM70 uses SDHC/SDXC recording media, the reliability and cost-effectiveness of which makes it the most widely used media by professionals today. Failsafe shooting is further provided by the two onboard card slots, ensuring you never miss a shot. When the card in slot A(B) is full, the camcorder switches seamlessly and automatically to the card loaded into slot B(A) \*.

\* Cards are not hot swappable.

Dual  
SD  
Cards



## Unprecedented Recording Times with Dual Battery Mounts

Equipped with dual battery mounts, the GY-HM70 makes sure that you outlast those extended shoots, giving you long-lasting battery power to capture every event from start to finish. Two battery mounts not only give you double the recording time initially, they are also hot swappable. This means you can keep exchanging batteries without any break in recording.

\* Only one battery supplied



## Other Features

- Optical Image Stabilizer
- 3.0-inch 230K Touch Panel LCD
- 0.24-inch 260K Viewfinder
- Internal Stereo Zoom Microphone
- Slow motion recording (720x480 or 720x576 resolution)
- Interval recording
- Face Recognition
- Terminals: HDMI Out, AV Out, Headphone Out, USB, Mic In, Remote



# Specifications

## GY-HM70

General	
Power	DC 11V (AC adaptor), DC 7.2V (battery)
Power consumption	Approx. 3.6W (when LCD monitor backlight is set to [Level 3], 1920 x 1080i mode)
Dimensions	227(W) x 232(H) x 476(D)mm (8-15/16" x 9-1/8" x 18-3/4") (without battery)
Mass	Approx. 3.0kg (6.7lbs) (including one BN-VF823 battery, SDHC card)
Operating temperature	0°C to 40°C (32°F to 104°F)
Storage temperature	-20°C to 50°C (14°F to 122°F)
Operating humidity	35% to 80%
Storage humidity	Under 85%
Camera	
Synchronizing system	Internal synchronization
Stabilizer	Optical Image Stabilization with Enhanced Advanced Image Stabilizer
Lens	JVC HD GT LENS F1.2-2.8, f=3.76-37.6mm 35mm conversion: 29.5mm to 476mm*1
Zoom ratios	Optical 10x Dynamic 16x*2 Digital (max.) 200x
Focus	Auto/Manual
Filter diameter	46mm (screw pitch 0.75mm)
Image sensor	1/2.3" 12M pixels progressive scan 1CMOS Recording area, Video 5.4M to 2.07M pixels*1 Recording area, Still image (16:9) 5.4M to 2.07M pixels*2 Still image (4:3) 6.04M to 4.5M pixels*2
Gain	OFF, ON, AUTO SLOW-SHUTTER
Minimum illumination	1 lx: GAIN UP - AUTO SLOW-SHUTTER mode, Shutter Speed 1/30 (GY-HM70U) or 1/25 (GY-HM70E)
Shutter speed	1/2 to 1/4000
Iris	F1.2-5.6
White balance	Auto, MWB, 5200K, 6000K, 3200K
High-speed video recording (for slow motion)	300 fps (fixed) (Resolution: 720x480: GY-HM70U) 250 fps (fixed) (Resolution: 720x576: GY-HM70E)
Continuous shooting speed (during still image recording)	High: Approx. 12.5 images/sec, Medium: Approx. 6.25 images/sec, Low: Approx. 2 images/sec
LCD display	3.0" LCD 230K pixels, 16:9
Viewfinder	0.24" LOOS 260K pixels, 16:9
Internal microphone	2ch Stereo (with Zoom Microphone Function)

Video/Audio Recording	
Recording media	SDHC/SDXC (Class 4/6/10) Card, Memory Card Slots x2
Recording format	Video HD: AVCHD/AVCHD Progressive, MPEG-4 AVC/H.264 Audio: Dolby Digital 2ch (AC3) 48kHz/16-bit, 256kbps
Recording mode	HD Progressive mode: 1920 x 1080/60p (GY-HM70U) /50p (GY-HM70E): Approx. 28Mbps (max) UXP mode: 1920 x 1080/60i (GY-HM70U) /50i (GY-HM70E): Approx. 24Mbps XP mode: 1920 x 1080/60i (GY-HM70U) /50i (GY-HM70E): Approx. 17Mbps SP mode: 1920 x 1080/60i (GY-HM70U) /50i (GY-HM70E): Approx. 12Mbps EP mode: 1920 x 1080/60i (GY-HM70U) /50i (GY-HM70E): Approx. 5Mbps SD SSW (16:9) mode: 720x480/60i (GY-HM70U) 720x576/50i (GY-HM70E): Approx. 6Mbps SEW (16:9) mode: 720x480/60i (GY-HM70U) 720x576/50i (GY-HM70E): Approx. 3Mbps
Still Image Recording	
Recording media	SD/SDHC/SDXC Card
Recording format	JPEG
Interface	
Video output	RCA x1 HDMI Mini Connector (x.v.Colour compatible) x1
Audio output	RCA x2
Mic input	ø 3.5mm mini jack (stereo) x1 (Plug in power)
Headphone	ø 3.5mm mini jack (stereo) x1
USB	Mini USB Type AB, USB 2.0 compliant
Remote	ø 3.5mm mini jack x1
Accessories Provided	
AC adaptor (AP-V20), Battery pack (BN-VF823), Composite/audio cable (RCA x 3), USB cable, CD-ROM	

\*1 Image Stabilizer: OFF, Dynamic Zoom: ON \*2 Image Stabilizer: OFF

### Optional Accessories



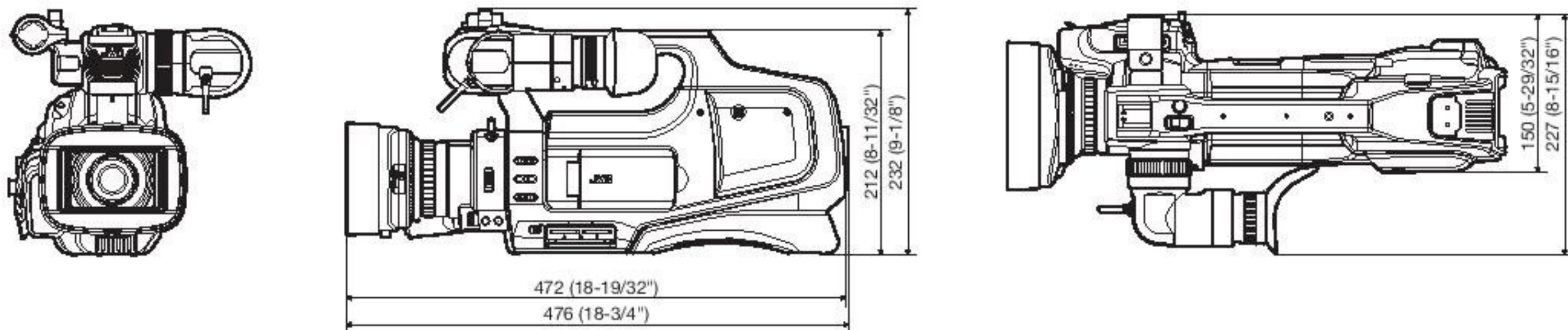
### SDHC Class 4/6/10, SDXC recording time (approx.)

\* Class 4 only corresponds with XP, SP, EP, SSW and SEW modes.

Resolution	1920 x 1080p		1920 x 1080i				720 x 576i	
	Mode	Progressive	UXP	XP	SP	EP	SSW	SEW
4GB		15 min.	20 min.	30 min.	40 min.	1 hr. 40 min.	1 hr. 20 min.	2 hr. 50 min.
8GB		35 min.	40 min.	1 hr.	1 hr. 20 min.	3 hr. 30 min.	2 hr. 40 min.	5 hr. 40 min.
16GB		1 hr. 10 min.	1 hr. 20 min.	2 hr.	2 hr. 50 min.	7 hr. 10 min.	5 hr. 30 min.	11 hr. 30 min.
32GB		2 hr. 30 min.	2 hr. 50 min.	4 hr.	5 hr. 50 min.	14 hr. 40 min.	11 hr. 20 min.	23 hr. 30 min.
64GB (SDXC)		5 hr.	5 hr. 40 min.	8 hr. 10 min.	11 hr. 30 min.	28 hr. 50 min.	22 hr. 20 min.	46 hr. 10 min.
128GB (SDXC)		10 hr.	11 hr. 30 min.	16 hr. 20 min.	23 hr. 10 min.	57 hr. 50 min.	44 hr. 50 min.	92 hr. 40 min.

### Dimensions

Unit: mm (inches)



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