

# JVC

4K Memory Card Camera Recorder

## GY-HM180



Compact 4K Camcorder Combines Quality, Mobility, and Versatility



### 4K CAM

HDMI  
HIGH-DEFINITION MULTIMEDIA INTERFACE

SD  
XC

SD  
XC

AVCHD  
Progressive

MOV  
QuickTime™

Shown with optional microphone



## 4K Ultra HD Camcorder for the Pro On-the-Go

Meet GY-HM180, the full-featured 4K Ultra HD camcorder with professional audio connectivity that's small and light enough to take everywhere and capable of the quality you need. Its detachable handle contains two XLR audio inputs, each mic/line switchable with phantom power. And with two SDHC/SDXC slots, you can record hours of 4K/UHD (3840x2160) material or 4:2:2 HD signals at up to 50Mbps. Whether you want to fully customize your settings, or set it to Full Auto and simply concentrate on the subject, count on the compact camcorder that puts professional quality in the palm of your hand.



### 1/2.3-inch 12.4M CMOS Sensor

The GY-HM180 was built to deliver stunning, life-like 4K Ultra HD (3840x2160) video. JVC's 4K CMOS sensor with 12.4M pixels delivers high sensitivity and excellent performance over a wide range of lighting conditions. Details are crisp and accurate throughout the entire image plane.



### 12x Optical Zoom and Seamless 24x Dynamic Zoom

The ultra high quality imagery begins with a precision 12x F1.2–3.5 optical zoom lens (35mm equivalent: 29.6–355mm). When shooting in the HD mode, Dynamic Zoom combines optical zoom and pixel mapping from a 4K image sensor to create seamless and lossless 24x zoom. This allows the camera to have a long zoom range while retaining its compact form factor.



Original Image No Zoom



12x Optical Zoom



24x Dynamic Zoom in HD Zoom

Dynamic Zoom combines Optical Zoom plus Pixel Mapping—focusing on a smaller image area for lossless 24X Zoom

## HD-SDI (3G) and HDMI Output

GY-HM180 comes with a wide variety of connectors to meet the needs of professional applications, including HD-SDI (3G) and HDMI. Secured digital connection is assured between external devices such as a recorder or switcher. Simultaneous output from both SDI and HDMI is also possible.



## 4K/Ultra HD (UHD) Recording at 150Mbps and Live Output

Working with 4K has never been easier. Insert an SDHC or SDXC (UHS-I Speed class 3) memory card and record hours of 4K/UHD (3840x2160) material. Recordings are made using the Quicktime (.MOV) file format and are compatible with many popular editing systems. Connect a 4K/UHD monitor with a single HDMI cable, and view the camera's live 4K signal. You can also play back recorded files directly from the camera. A 70Mbps recording mode is also available to record 4K footage on economical Class 10 SDHC/SDXC memory cards.

## 120fps (59.94Hz)/100fps (50Hz) High-Speed Recording for Slow Motion Playback

Also available is high-speed recording\* at up to 120fps (59.94Hz)/100fps (50Hz) for smooth slow motion playback (up to 1/5 slow at 24p mode). It helps create artistic effects and lets you watch replays to examine sporting skills.

\*Available in 1920x1080 resolution only



## Full HD 4:2:2 Recording at 50Mbps

The ability to record H.264 4:2:2 24-60p at 50Mbps makes the GY-HM180 an ideal camera for broadcasting and production houses alike. The color accuracy of 4:2:2 enables the GY-HM180 to deliver exceptional color resolution even when images are in sharp contrast to the background. This is particularly useful when strong colors are in contrast to bright backgrounds, or in green screen usage.

### HD 4:2:2 60p/50p at 50Mbps

## Dual SDHC/SDXC Card Slots for Maximum Versatility

Dual SDHC/SDXC card slots make the GY-HM180 a truly versatile camcorder, offering such benefits as series recording, dual recording, and backup recording modes using 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 theatrical and bridal camera crews.

\*During simultaneous backup recording in HD mode, the duplicate file records in the same file format and bit rate as the original.



## More Features for Reliable Shooting

- Histogram Display • Spot Meter Display • Focus Assist
- 2-Position ND Filter (1/4, 1/16) • Built-in Stereo Microphone
- 3.5-inch Color LCD Display (920K pixel)
- 0.24-inch Color Viewfinder • Wired Remote Control supported

## Manual Control Rings and User Assignable Buttons

Take total control of the scene with dual large rings for zoom and focus, and IRIS dial for smooth shooting. What's more, functions you want can be allocated to 9 buttons and 4 cursor levers, so settings can be changed smoothly during recording, making professional operation really easy.



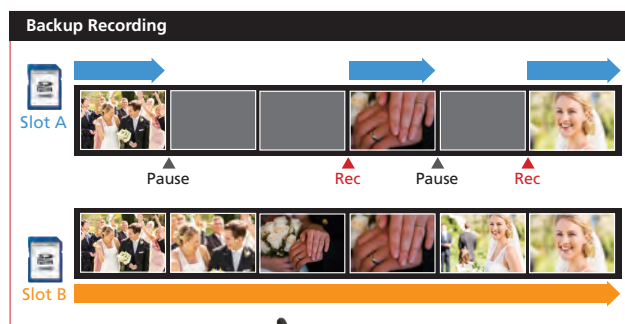
## Heavy-duty Handle Unit with Various Controls

The detachable heavy-duty handle makes the GY-HM180 easy to carry — and also makes it simple to shoot from low angles, thanks to its built-in REC button with lock function, and zoom lever. XLR audio inputs are provided for the attachment of a professional microphone or for LINE input, complete with Phantom power supply capability.



## Fully Customizable Settings and Full Auto Simplicity

For more advanced visual expressions, detailed image settings such as gamma and color shade can be customized. All of the customized settings are stored in the camera unit or SD card, and can be called up whenever necessary. If speed is your maximum concern, you can always go with Full Auto operation or engage Auto partially for certain functions. Reliable shooting is assured even in Auto mode.



Shown with optional microphone



## Specifications

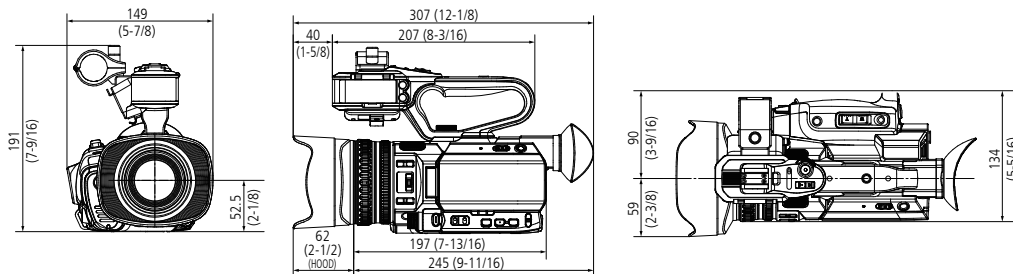
| GENERAL               |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Power                 | DC 12V (AC adaptor), DC 7.2V (battery)                                                                                                         |
| Power consumption     | Approx. 8.0W (with VF in 4K REC mode, default setting)                                                                                         |
| Weight                | Approx. 1.1kg (including battery)                                                                                                              |
| Dimensions            | 149 (W) x 191 (H) x 307 (D) mm                                                                                                                 |
| Operation temperature | 0°C to 40°C                                                                                                                                    |
| Storage temperature   | -20°C to 50°C                                                                                                                                  |
| Operating humidity    | 30% to 80%                                                                                                                                     |
| Storage humidity      | Under 85%                                                                                                                                      |
| CAMERA                |                                                                                                                                                |
| Image sensor          | 1/2.3-inch back-side illuminated CMOS, total 12.4M pixels                                                                                      |
| Synchronizing         | Internal synchronization                                                                                                                       |
| Stabilizer            | Optical image stabilizer                                                                                                                       |
| Shutter speed         | 1/6 — 1/10000                                                                                                                                  |
| Lens                  | 35mm equivalent: 29.6mm to 355mm                                                                                                               |
| Filter diameter       | 62mm                                                                                                                                           |
| Gain                  | 0, 3, 6, 9, 12, 15, 18, 21, 24 dB, Lolux (30, 36 dB), AGC                                                                                      |
| ND filter             | None, 1/4, 1/16                                                                                                                                |
| LCD display           | 3.5-inch 920 k pixels, 16:9                                                                                                                    |
| Viewfinder            | 0.24-inch 1.56 M pixel, 16:9                                                                                                                   |
| VIDEO/AUDIO RECORDING |                                                                                                                                                |
| Recording media       | 2x SDHC/SDXC memory card (4K (150Mbps): UHS-1 U3 4K (70Mbps), HD: 50Mbps Class 10, HD: 35Mbps Class 6, AVCHD/SD Class 4), High-Speed: UHS-1 U3 |
| Video recording       | Video codec: MPEG-4 AVC/H.264 (4K/HD/SD/Proxy), AVCHD (HD/SD)<br>File format: MOV (H.264), MTS (AVCHD)                                         |
| Audio recording       | LPCM 2ch, 48kHz/16-bit (4K/HD/SD MOV), AC3 2ch (AVCHD), $\mu$ -law 2ch (Proxy)                                                                 |
| INTERFACES            |                                                                                                                                                |
| Video output          | SDI output (BNC x 1), HDMI output x 1, AV output (3.5mm mini jack x 1)                                                                         |
| Audio input           | XLR x 2 (MIC, +48V/LINE), 3.5mm mini jack x 1                                                                                                  |
| Audio output          | AV output (3.5mm mini jack x 1)                                                                                                                |
| Headphone             | 3.5mm mini jack x 1                                                                                                                            |
| Remote                | 2.5mm mini jack x 1                                                                                                                            |
| USB                   | DEVICE x 1 (mass storage)                                                                                                                      |
| PROVIDED ACCESSORIES  |                                                                                                                                                |
|                       | Handle unit, AC adapter x 1                                                                                                                    |

## Recording Formats

| System      | Format                           | Resolution | Frame rate                              | Bit rate                          | Audio                                    | Rec Time on 64GB SD Card |                      |
|-------------|----------------------------------|------------|-----------------------------------------|-----------------------------------|------------------------------------------|--------------------------|----------------------|
| 4K          | QuickTime<br>(MPEG-4, AVC/H.264) | 3840×2160  | 29.97p/25p/23.98p                       | 150Mbps/70Mbps (YUV 4:2:2/Normal) | LPCM 2ch 48kHz/16bit                     | 50 min./105 min.         |                      |
|             |                                  |            | 59.94p/59.94i/50p/50i/29.97p/25p/23.98p | 50Mbps (YUV4:2:2/XHQ)             |                                          | 145 min.                 |                      |
|             |                                  | 1920x1080  | 59.94p/59.94i/50p/50i/29.97p/25p/23.98p | 35Mbps (UHQ)                      |                                          | 200 min.                 |                      |
|             |                                  |            | 1280×720                                | 59.94p/50p                        |                                          | 35Mbps (UHQ)             |                      |
| HD          | AVCHD                            | 1920x1080  | 59.94p/50p                              | 28Mbps (HQ)                       | Dolby Digital 2ch 48kHz/16bit<br>256kbps | 270 min.                 |                      |
|             |                                  |            | 59.94i/50i                              | 24Mbps (HQ), 18Mbps (SP)          |                                          | 312 min./400 min.        |                      |
| SD          | QuickTime                        | 720×576    | 50i                                     | 8Mbps (HQ)                        | LPCM 2ch 48kHz/16bit                     | 760 min.                 |                      |
|             | AVCHD                            |            |                                         |                                   | Dolby Digital 2ch 48kHz/16bit<br>256kbps | 842 min.                 |                      |
| WEB (Proxy) | QuickTime<br>(MPEG-4, AVC/H.264) | 960×540    | 29.97p/25p/23.98p                       | 3Mbps (HQ)                        | $\mu$ -law 2ch 16kHz                     | 2160 min.                |                      |
|             |                                  |            | 720×480                                 | 59.94i                            |                                          | 8Mbps                    | 760 min.             |
|             |                                  | 720×576    | 50i                                     | 8Mbps                             |                                          | 760 min.                 |                      |
|             |                                  | 480×270    | 29.97p/25p/23.98p                       | 1.2Mbps (LP)                      |                                          | 4720 min.                |                      |
|             | AVCHD                            | 1440×1080  | 59.94i/50i                              | 9Mbps (LP), 5Mbps (EP)            | Dolby Digital 2ch 48kHz/16bit<br>256kbps | 760 min./1344 min.       |                      |
|             |                                  |            | 720×480                                 | 59.94i                            |                                          | 8Mbps                    | 760 min.             |
|             |                                  | 720×576    | 50i                                     |                                   |                                          |                          |                      |
| High-Speed  | QuickTime<br>(MPEG-4, AVC/H.264) | 1920x1080  | 120fps                                  | 59.94p/29.97p/23.98p              | 50Mbps (XHQ), 35Mbps (UHQ)               | —                        | (Differs by setting) |
|             |                                  |            | 100fps                                  | 50p/25p                           |                                          |                          |                      |
|             |                                  |            | 60fps                                   | 29.97p/23.98p                     |                                          |                          |                      |
|             |                                  |            | 50fps                                   | 25p                               |                                          |                          |                      |

## Dimensions

Unit: mm (inch)



## Optional Accessory

**BN-VF823**  
Li-ion Battery  
7.2V, 2190mAh



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*Simulated pictures.*  
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