

# JVC

Handheld Mobile News Camera

# GY-HM650

# ProHD



The GY-HM650 is the perfect camcorder for next generation newsgathering. With dual codec recording, clips can be transferred to the station immediately with built in FTP. Light, versatile and extremely easy to use, this camera offers superb low light performance, a long (23x) wide angle zoom lens, and MXF file interoperability from acquisition to air.



- 1/3-inch 12-bit CMOS sensors (1920 x 1080 x 3)
- F11 Sensitivity
- 23x Fujinon Auto focus zoom lens with manual functions  
F1.6-3.0, 23x, f=4.1-94.3mm (35mm conversion: 29 to 667mm)
- Optical image stabilizer
- SDXC/SDHC memory card recording (2 slots for dual-backup, continuous recording)
- Dual Codec: Recording simultaneously HD and 480 x 270 (for web delivery)
- Multiple encoding formats: HD MPEG2 (35/25/19Mbps) / AVCHD 1920x1080 60i / SD H.264
- Wide media format compatibility:  
.MXF with rich Metadata / .MOV (Final Cut Pro) / .MP4 (XDCAM EX™) / AVCHD

Mobile Newsgathering is now faster and better than ever with the introduction of JVC's GY-HM650. Small and light enough to be used anywhere, this advanced camera surpasses the performance of many traditional ENG style units and offers capabilities never before available on any model. Dual codecs make it possible to record for 2 screens simultaneously: full HD on one memory card and a smaller web-friendly file on another card. Transfer the footage back to the station with the GY-HM650's built-in FTP and WiFi connectivity.

## Additional Key Features

- 3 position ND filter (1/4, 1/16, 1/64)
- Professional switch layout and comprehensive video settings
- 0.45-inch 1.22M pixel color viewfinder
- 3.5-inch 920K pixel LCD display with focus assist
- Pre Rec (retro) mode (20 sec.)
- Interval (time lapse) recording
- Built-in stereo microphone
- 2-channel balanced audio inputs (mic/line switchable) w/phantom power supply
- HD/SD-SDI, HDMI Outputs
- Wired remote control connector
- Built-in GPS
- Built-in web interface for remote viewing of camera images & wireless remote control with Smartphone, tablet
- FTP file upload and metadata download via WiFi or Broadband
- High performance 2D DNR

## Product Specifications

GENERAL SPECIFICATIONS	
Power	DC 12V (AC adaptor), DC 7.2V (Battery)
Power Consumption	Approx. 12W (with VF and LCD monitor)
Dimensions	178(W) x 198(H) x 416(D)mm (7" x 7-13/16" x 16-3/8")
Weight	Approx. 2.45kg(5.4lbs):GY-HM650 (Including battery)
Operating temperature	0 to 40 (32 to 104)
Storage temperature	-20 to 50 (14 to 122)
Operating humidity	35% to 80%
Storage humidity	Under 85%
CAMERA	
Image Sensor	1/3" 2.2M pixels progressive scan 3CMOS
Synchronizing system	Internal synchronization
Stabilizer	Optical image stabilizer
Lens	Fujinon F1.6-3.0, 23x, f=4.1-94.3mm (35mm conversion:29 to 667mm)
Filter diameter	72mm
Shutter speed	1/4 to 1/10000
Gain	-6, -3, 0, 3, 6, 9, 12, 15, 18 dB, Lolux, ALC
ND filter	1/4, 1/16, 1/64
LCD display	3.5" 920K pixels, 16:9
Viewfinder	0.45" 1.22M pixels, 16:9

VIDEO/AUDIO RECORDING	
Recording media	2x SDHC/SDXC memory card Class 6/10
Video recording	Video codec: MPEG2 Long GOP(HD), AVCHD, H.264(SD) File format: MOV(HD/SD:H.264), MP4(XDCAM EX), MTS(AVCHD), MXF MPEG-2 Long GOP
Recording mode	NTSC setting: HQ mode:1920 x 1080/59.94i, 29.97p, 23.98p, 1440 x 1080/59.94i, 1280 x 720/59.94p, 29.97p, 23.98p SP mode: 1440 x 1080/59.94i PAL setting: HQ mode:1920 x 1080/50i, 25p, 1440 x 1080/50i SP mode: 1440 x 1080/50i AVCHD NTSC setting: HQ mode:1920 x 1080/59.94i, SP mode:1920 x1080/59.94i PAL setting: HQ mode:1920 x 1080/50i, SP mode:1920 x1080/50i SD (H.264) NTSC setting: 720 x 480/59.94i(HM650U only) PAL setting: 720 x 576/50i(HM650E only) Proxy(H.264) NTSC setting: LP/LV mode:480 x 270/29.97p, 23.98p PAL setting: LP/LV mode:480 x 270/25p
Audio recording	LPCM 2ch, 48kHz/16-bit(MPEG-2 Long GOP/H.264), AC3(AVCHD)
INTERFACE	
Video output	AV output (f3.5mm mini jack x1) SDI output (BNC x1) HDMI output x1
Audio input	XLR x2 (MIC,+48V/LINE), f3.5mm mini jack x1
Audio output	AV output (f3.5mm mini jack x1)
Headphone	f3.5mm mini jack x1
Time code link input/output	RCA x1
Remote	f2.5mm mini jack x1
PROVIDED ACCESSORIES	
Battery pack x1, AC adapter x1, AV cable x1	

Specifications are tentative and subject to change without notice.

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