

1"4K Handheld Camera Recorder

## GY-HC550 **GY-HC500**



### CONNECTED CAM









# **Supreme 1" 4K handheld camcorder for ENG, production, and sports.**

Up to 4K 60p/50p Apple ProRes 422 10-bit recording and advanced IP connectivity from any location to anywhere in the world.



#### **Camera Features**

- 4K UHD 60p/50p Apple ProRes 422 10-bit recording to SSD\*
- 4K UHD 30p/25p/24p 4:2:0 8-bit recording to SDHC/ SDXC card
- 1" (effective) CMOS sensor with high picture quality
- Newly-developed 4K lens with 20x zoom
- HDR recording, HLG or J-Log1 (10-bit)
- Broadcast overlay on video and streaming (GY-HC550 only)
- \*with optional SSD media case by JVC

#### **CONNECTED CAM Features**

- High performance 1080 60p/50p live streaming (4K Rec + HD streaming + 4K HDMI output)
- Low latency and high-quality streaming up to 20Mbps
- LAN terminal (Streaming/IFB/Remote) in addition to USB host (v3.0)
- Return over IP (Return video and IFB)
- Auto FTP to upload native video clips automatically
- Built-in wireless LAN (2.4GHz/5GHz) MIMO with external antenna (GY-HC550 only)

#### **Specifications**

Power	
Dimensions (W x H x D)	
Weight	
Ingless protection   IPX2 equivalent	
Image sensor   1" (effective) CMOS, effective number of pixels: approx 9.35 mil   Stabilizer   Optical image stabilizer   Sensitivity   F11 at 2000lx 89.9% reflectance   Lens   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 188.6mm to 188.6mm (f=28mm to 188.6mm to 18	t)
Stabilizer   Optical image stabilizer   Sensitivity   F11 at 2000lx 89.9% reflectance   Lens   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r Filter diameter   82mm   Shutter speed   1/6 to 1/10000   ND filter   Off, 1/4, 1/16, 1/64   Viewfinder   0.4* LCOS Quad VGA (1280 x 960), 1280 x 720 at 16:9   SDHC/SDXC memory card x 2: 4k (150Mbps): UHS-1 U3, 4k (70M SD: Class 4, High-Speed: UHS-1 US SD (M.2) with optional media case by JVC   Video codec   Apple ProRes 422, MPEG-4 AVC/H.264 (HD/SD), MPEG-2 (HD)*   File format   MOV, MP4, MXF*   4K UHD 30p/25p/24p (H.264)   3840 x 2160, 4;2;2 10-bit / 4;2:0 8-bit 150Mbps/70Mbps   HD (H.264)   1920 x 1080/1280 x 720, 4;2:2 10-bit / 4;2:0 8-bit mode, etc., 50M HD (MPEG-2 Long GOP)*   1920 x 1080/1440 x 1080/1280 x 720, 35Mbps /25Mbps   SD (H.264)   720 x 480 (U model)/720 x 576 (E/EU model), 8Mbps   Proxy (H.264)   960 x 540/480 x 270, 3 - 1.2Mbps   Audio recording   LPCM 2ch, 48kHz/16-bit (MOV/MXF*), µ-Law 2ch (Proxy), AAC 2ch (ABC) (S.994p/50p) 20 - 3Mbps, (29.97p/25p) 3 - 0.31   1280 x 720 (59.94p/50p) 20 - 3Mbps, (29.97p/25p) 3 - 0.31   1280 x 720 (59.94p/50p) 20 - 3Mbps, (29.97p/25p) 3 - 0.31   1280 x 720 (59.94p/50p) 20 - 3Mbps, (29.97p/25p) 3 - 0.31   Audio input   XLR x 2 (MIC, +48V/LINE), e3.5mm mini jack x 1   Audio output   Audio output   Av output (e3.5mm mini jack x 1)   Audio output   Audio output   Av output (e3.5mm mini jack x 1)   Audio output   Audio output   Av output (e3.5mm mini jack x 1)   Audio output   Av output (e3.5mm mini jack x 1)   Audio output   Av output (e3.5mm mini jack x 1)   Audio output   Av output (e3.5mm mini jack x 1)   Audio output   Av output (e3.5mm mini jack x 1)   Audio output   Av output (e3.5mm mini jack x 1)   Av output (e3.5mm mini jack x 1)   Audio output   Av output (e3.5mm mini jack x 1)   Audio output   Av output (e3.5mm mini jack x 1)   Av output (e3.5mm mini jack x 1)   Audio output   Av output (e3.5mm mini jack x 1)   Av output (e3.5mm mini jack x 1)   Av output (e3.5mm mini jack x 1)   Av output (e3	
Sensitivity	lion
Lens   F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6mm (f=28mm to 560r	
Filter diameter   Shutter speed   1/6 to 1/10000   ND filter   Off, 1/4, 1/16, 1/64	
Shutter speed	mm (35mm equivalent))
ND filter	
Viewfinder   D.4* LCOS Quad VGA (1280 x 960), 1280 x 720 at 16:9	
LCD monitor   3.97" LCD /WVGA (800 x 480), 800 x 450 at 16:9	
SDHC/SDXC memory card x 2: 4K (150Mbps): UHS-1 U3, 4K (70M SD: Class 4, High-Speed: U4, 4K (15 Miss) 4, 4K (15 Miss)	
Recording media   SD: Class 4, High-Speed: UHS-1 USD	
File format MOV, MP4, MXF*  4K UHD 60p/50p  3840 x 2160, Apple ProRes 422 HQ/Apple ProRes 422/Apple Pro  4K UHD 30p/25p/24p (H.264)  4K UHD 30p/25p/24p (H.264)  4B UHD (H.264)  4B UHD (MPEG-2 Long GOP)*  5D (H.264)  4B UHD (MPEG-2 Long GOP)*  5D (H.264)  4B UHD (MPEG-2 Long GOP)*  5D (H.264)  720 x 480 (U model)/720 x 576 (E/EU model), 8Mbps  720 x 480 (U model)/720 x 576 (E/EU model), 8Mbps  720 x 480 (U model)/720 x 576 (E/EU model), 8Mbps  8D (H.264)  8D	
VIDEO/AUDIO RECORDING  4K UHD 60p/50p  3840 x 2160, Apple ProRes 422 HQ/Apple ProRes 422/Apple Pro 4K UHD 30p/25p/24p (H.264)  1820 x 1080/1280 x 720, 4:2:2 10-bit / 4:2:0 8-bit 150Mbps/70Mbps  HD (H.264)  1920 x 1080/1280 x 720, 4:2:2 10-bit / 4:2:0 8-bit mode, etc., 50M  HD (MPEG-2 Long GOP)*  1920 x 1080/1440 x 1080/1280 x 720, 35Mbps /25Mbps  SD (H.264)  720 x 480 (U model)/720 x 576 (E/EU model), 8Mbps  Proxy (H.264)  Audio recording  Protocol  RTMP, MPEG2-TS/UDP, MPEG2-TS/TCP, MPEG2-TS/RTP, RTSP/R  Resolution and bit rate  1920 x 1080 (59:94p/50p) 20 – 3Mbps, (29:97p/25p) 20 – 3Mbps, 1280 x 720 (29:97p/25p) 3 – 0.31  3G-SDI output (BNC x 1)  HDMI output x 1  Av output (ø3.5mm mini jack x 1)  Audio input  Audio input  Audio output  Headphone  Ø3.5mm mini jack x 1  Remote  42.5mm mini jack x 1	
AK UHD 30p/25p/24p (H.264)   3840 x 2160, 4:2:2 10-bit / 4:2:0 8-bit 150Mbps/70Mbps	
4K OHD 30p/2sp/24p (H.264)  HD (H.264)  HD (H.264)  HD (MPEG-2 Long GOP)*  SD (H.264)  Proxy (H.264)  Audio recording  Resolution and bit rate  Video output  Video output  Audio input  Audio input  Audio input  Audio output  Headphone  Remote  4K OHD 30p/2sp/24p (H.264)  A3840 x 2160, 4:2:2 10-bit / 4:2:0 8-bit 150Mbps/70Mbps  1920 x 1080/1280 x 720, 35Mbps /25Mbps  SD (H.264)  720 x 480 (U model)/720 x 576 (E/EU model), 8Mbps  Proxy (H.264)  960 x 540/480 x 270, 3 – 1.2Mbps  LPCM 2ch, 48kHz/16-bit (MOV/MXF*), μ-Law 2ch (Proxy), AAC 2ch (Proxy	Res 422 LT, 10-bit
HD (MPEG-2 Long GOP)*  SD (H.264)  Proxy (H.264)  Audio recording  Protocol  RTMP, MPEG2-TS/TUDP, MPEG2-TS/TCP, MPEG2-TS/RTP, RTSP/R  Resolution and bit rate  Wideo output  Video output  Audio input  Audio input  Audio input  Audio output  Audio output  INTERFACES  HD (MPEG-2 Long GOP)*  1920 x 1080/1280 x 720, 35Mbps / 25Mbps  720 x 480 (U model)/720 x 576 (E/EU model), 8Mbps  720 x 480 (U model)/720 x 576 (E/EU model), 8Mbps  720 x 480 (U model)/720 x 576 (E/EU model), 8Mbps  720 x 480 (U model)/720 x 576 (E/EU model), 8Mbps  80 x 520 (Proxy), AAC 20  80 x 720 (Proxy), AAC 20  80 x	
SD (H.264)   720 x 480 (U model)/720 x 576 (E/EU model), 8Mbps	ibps – 8Mbps
Proxy (H.264)   960 x 540/480 x 270, 3 – 1.2Mbps	
Audio recording	
Protocol   RTMP, MPEG2-TS/TCP, MPEG2-TS/TCP, MPEG2-TS/TCP, RTSP/R	
1920 x 1080 (59.94p/50p) 20 - 8Mbps, (29.97p/25p) 20 - 3Mbps, 1280 x 720 (59.94p/50p) 20 - 3Mbps, (29.97p/25p) 8 - 1280 x 720 (59.94p/50p) 3/1.5Mbps, 640 x 360 (29.97p/25p) 8 - 1380 x 720 (59.94p/50p) 3/1.5Mbps, 640 x 360 (29.97p/25p) 3 - 0.31	ch (MP4)
Resolution and bit rate   1280 x 720 (59.94p/50p) 20 - 3Mbps, 1280 x 720 (29.97p/25p) 8 - 1	TP, Zixi*
Video output	1.5Mbps,
AV output (ø3.5mm mini jack x 1)  Audio input XLR x 2 (MIC, +48V/LINE), ø3.5mm mini jack x 1  Audio output AV output (ø3.5mm mini jack x 1)  INTERFACES Headphone ø3.5mm mini jack x 1  Remote ø2.5mm mini jack x 1	
Audio input XLR x 2 (MIC, +48V/LINE), Ø3.5mm mini jack x 1  Audio output AV output (Ø3.5mm mini jack x 1)  Headphone Ø3.5mm mini jack x 1  Remote Ø2.5mm mini jack x 1	
Audio output         AV output (ø3.5mm mini jack x 1)           INTERFACES         Headphone         ø3.5mm mini jack x 1           Remote         ø2.5mm mini jack x 1	
NTERFACES	
Remote ø2.5mm mini jack x 1	
Remote ø2.5mm mini jack x 1	
Time code input/output RCA	
USB HOST x 1 (network connection)	
Ethernet RJ-45 x 1	
Built-in slot Optional SSD media case and for future expansion	
Wireless LAN Built-in (2.4GHz/5GHz)*	
PROVIDED ACCESSORIES Battery (BN-VC264) x 1, AC adapter, power cable, lens hood, wireless LAN antenna x 2*	

\*GY-HC550 exclusive features – Recording: MPEG2 (HD), MXF Rec / Streaming: Supports Zixi protocol, GPS, built-in wireless LAN with accessory antenna

Simulated pictures.

The values for weight and dimensions are approximate. E.&O.E. Design and specifications subject to change without notice. Copyright © 2018, JVCKENWOOD Corporation. All Rights Reserved.

Product and company names mentioned here are trademarks or registered trademarks of their respective owners. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or grietized trademarks of PIOMI Licensing LLC. Dolby is a trademark of Dolby Laboratories Zoia and the Zioi logo are trademarks of Zioi LLC. The SD, SDHC and SDX care trademarks of the SD Card Association.



**DISTRIBUTED BY**