Specifications

GENERAL SPECIFICATIONS GENERAL SPECIFICATIONS GENERAL SPECIFICATIONS GENERAL SPECIFICATIONS GENERA CAMERA	DC12V (AC adapter), DC7.2V (battery) Approx. 24W (Default setting) 188mm x 227mm x 437mm (with lens hood) 3.6kg (with lens hood and battery, without Operating: 0°C to 40°C, Storage: -20°C to 5 Operating: 30% to 80%, Storage: Under 85 1* (effective) CMOS, effective number of p Internal synchronization Optical image stabilizer F11 at 2000lx 89.9% reflectance F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6 82mm 1/6 (48Hz), 1/7.5 (60Hz) to 1/10000 -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3 OFF, 1/4, 1/16, 1/64 0.4* LCOS approx 3.68M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA ProRes 422, MPEG-4 AVC/H.264, MPEG-2	wireless LAN antenna unit) 50°C 56% 56% 56% 56% 56% 56% 56% 56%
GENERAL SPECIFICATIONS Dimensions (W × H × D) Weight Temperature Humidity Image sensor Synchronizing Stabilizer Sensitivity Lens Filter diameter Shutter speed Gain ND filter Viewfinder LCD monitor UCD monitor VIDEO/AUDIO RECORDING Video codec File format Audio recording Protocol Resolution and bit rate	18mm x 227mm x 437mm (with lens hood) 3.6kg (with lens hood and battery, without Operating: 0°C to 40°C, Storage: -20°C to 5 Operating: 30% to 80%, Storage: Under 85 1* (effective) CMOS, effective number of p Internal synchronization Optical image stabilizer F11 at 2000lx 89.9% reflectance F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6 82mm 1/6 (48Hz), 1/7.5 (60Hz) to 1/10000 -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3) OFF, 1/4, 1/16, 1/64 0.4* LCOS approx 3.68M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	wireless LAN antenna unit) 50°C 56% 57% 57% 57% 57% 57% 57% 57% 57
GENERAL SPECIFICATIONS Weight Temperature Humidity Image sensor Synchronizing Stabilizer Sensitivity Lens CAMERA Filter diameter Shutter speed Gain ND filter Viewfinder LCD monitor UDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO STREAMING LUE VIDEO STREAMING	 3.6kg (with lens hood and battery, without Operating: 0°C to 40°C, Storage: -20°C to 5 Operating: 30% to 80%, Storage: Under 85 1° (effective) CMOS, effective number of p Internal synchronization Optical image stabilizer F11 at 2000k 89.9% reflectance F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6 82mm 1/6 (48Hz), 1/7.5 (60Hz) to 1/10000 -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3 OFF, 1/4, 1/16, 1/64 0.4* LCOS approx 3.68M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA 	wireless LAN antenna unit) 50°C 56% 57% 57% 57% 57% 57% 57% 57% 57
VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO STREAMING VIDEO STREAMING VIDEO STREAMING VIDEO AUDIO RECORDING VIDEO STREAMING VIDEO STREAMING Weight Temperature Weight Image sensor Synchronizing Synchronizi	Operating: 0°C to 40°C, Storage: -20°C to 5 Operating: 30% to 80%, Storage: Under 85 1* (effective) CMOS, effective number of p Internal synchronization Optical image stabilizer F11 at 2000k 89.9% reflectance F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6 82mm 1/6 (48Hz), 1/7.5 (60Hz) to 1/10000 -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3 OFF, 1/4, 1/16, 1/64 0.4* LCOS approx 3.68M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	50°C 5% 5% bixels: approx 9.35 million 6mm (f=28mm to 560mm (35mm equivalent)) 36) dB, AGC 10280 x 960), 1280 x 720 at 16:9 10 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps): Class 5, 50: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO STREAMING	Operating: 30% to 80%, Storage: Under 85 1" (effective) CMOS, effective number of p Internal synchronization Optical image stabilizer F11 at 2000k 89.9% reflectance F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6 82mm 1/6 (48Hz), 1/7.5 (60Hz) to 1/10000 -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3) OFF, 1/4, 1/16, 1/64 0.4" LCOS approx 3.68M pixels Quad VGA 3.97" LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	5% bixels: approx 9.35 million 6mm (f=28mm to 560mm (35mm equivalent)) 36) dB, AGC 4(1280 x 960), 1280 x 720 at 16:9 0 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps): Class 5, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO STREAMING VIDEO STREAMING	1* (effective) CMOS, effective number of p Internal synchronization Optical image stabilizer F11 at 2000lx 89.9% reflectance F2 8 (wide) to F4.5 (tele), f=9.43mm to 188.6 82mm 1/6 (48Hz), 1/7.5 (60Hz) to 1/10000 -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3) OFF, 1/4, 1/16, 1/64 0.4* LCO3 approx 3.68M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	sixels: approx 9.35 million 6mm (f=28mm to 560mm (35mm equivalent)) 36) dB, AGC (1280 x 960), 1280 x 720 at 16:9 0 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps): Class 5.0: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/SUDIO RECORDING VIDEO/SUDIO RECORDING VIDEO/SUDIO RECORDING VIDEO/STREAMING VIDEO STREAMING VIDEO STREAMING VIDEO STREAMING VIDEO STREAMING	Internal synchronization Optical image stabilizer F11 at 2000lx 89.9% reflectance F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6 82mm 1/6 (48Hz), 1/7.5 (60Hz) to 1/10000 -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3 OFF, 1/4, 1/16, 1/64 0.4* LCOS approx 3.68M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	6mm (f=28mm to 560mm (35mm equivalent)) 36) dB, AGC (1280 x 960), 1280 x 720 at 16:9 0 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps): Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/SUDIO RECORDING VIDEO STREAMING LIVE VIDEO STREAMING	Optical image stabilizer F11 at 2000lx 89.9% reflectance F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6 82mm 1/6 (48Hz), 1/7.5 (60Hz) to 1/10000 -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3 OFF, 1/4, 1/16, 1/64 0.4* LCOS approx 3.68M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	36) dB, AGC (1280 x 960), 1280 x 720 at 16:9 0 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps): Class 5, Ds: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/SUDIO RECORDING VIDEO STREAMING LIVE VIDEO STREAMING	F11 at 2000lx 89.9% reflectance F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6 82mm 1/6 (48Hz), 1/7.5 (60Hz) to 1/10000 -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3) OFF, 1/4, 1/16, 1/64 0.4* LCOS approx 3.68M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	36) dB, AGC (1280 x 960), 1280 x 720 at 16:9 0 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps): Class 5, Ds: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
CAMERA CAMERA Filter diameter Shutter speed Gain ND filter Viewfinder LCD monitor CCD monitor Recording media VIDEO/AUDIO RECORDING Video codec File format Audio recording Protocol Resolution and bit rate	F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6 82mm 1/6 (48Hz), 1/7.5 (60Hz) to 1/10000 -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3) OFF, 1/4, 1/16, 1/64 0.4" LCOS approx 3.68M pixels Quad VGA 3.97" LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	36) dB, AGC (1280 x 960), 1280 x 720 at 16:9 0 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps): Class 5, Ds: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
CAMERA Filter diameter Shutter speed Gain ND filter Viewfinder LCD monitor LCD monitor Recording media Video codec File format Audio recording Protocol Resolution and bit rate	82mm 1/6 (48Hz), 1/7.5 (60Hz) to 1/10000 -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3 OFF, 1/4, 1/16, 1/64 0.4* LCO approx. 1.15M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	36) dB, AGC (1280 x 960), 1280 x 720 at 16:9 0 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps): Class 5, Ds: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO STREAMING VIDEO STREAMING	1/6 (48H2), 1/7.5 (60H2) to 1/10000 -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3) OFF, 1/4, 1/16, 1/64 0.4* LCOS approx 3.68M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800) SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	. (1280 x 960), 1280 x 720 at 16:9 0 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING Video codec File format Audio recording Protocol Resolution and bit rate	-6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3 OFF, 1/4, 1/16, 1/64 0.4* LCOS approx 3.68M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	. (1280 x 960), 1280 x 720 at 16:9 0 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING Video codec File format Audio recording Protocol Resolution and bit rate	OFF, 1/4, 1/16, 1/64 0.4* LCOS approx 3.68M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	. (1280 x 960), 1280 x 720 at 16:9 0 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
Viewfinder LCD monitor VIDEO/AUDIO RECORDING Video codec File format Audio recording Protocol Resolution and bit rate	0.4* LCOS approx 3.68M pixels Quad VGA 3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	0 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING Video codec File format Audio recording Protocol Resolution and bit rate	3.97* LCD approx. 1.15M pixels WVGA (800 SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	0 x 480), 800 x 450 at 16:9 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING Video codec File format Audio recording Protocol LIVE VIDEO STREAMING	SDHC/SDXC memory card x 2 SSD (Solid State Drive) Type M.2 SATA	4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10, HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
VIDEO/AUDIO RECORDING Video codec File format Audio recording Protocol LIVE VIDEO STREAMING	SSD (Solid State Drive) Type M.2 SATA	HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3, Exchange (U model)/MP4 (Emodel): Class 4
Video codec File format Audio recording Protocol Resolution and bit rate		With KA MC100G (optional)
Video codec File format Audio recording Protocol Resolution and bit rate	ProRes 422, MPEG-4 AVC/H.264, MPEG-2 [With KA-We lood (optional)
Audio recording Protocol LIVE VIDEO STREAMING Resolution and bit rate		[GY-HC550]
Protocol Protocol Resolution and bit rate	QuickTime, MP4, MXF [GY-HC550]	
LIVE VIDEO STREAMING	LPCM 2ch, 48kHz/24-bit/16-bit , µ-Law 2ch	(Web), AAC 2ch (Exchange/MP4), Detail information is shown in Recording Formats chart below.
LIVE VIDEO STREAMING	MPEG2-TS/UDP, MPEG2-TS/TCP, MPEG2-T	FS/RTP, RTSP, Zixi, SRT, RTMP, RTMPS, Facebook Live (RTMPS), YouTube Live (RTMP)
LIVE VIDEO STREAMING	>> Refer to "Streaming Format Availability	r" chart on page 3 for details.
Return over IP	RTSP/RTP, Zixi [GY-HC550], Icecast (Audio)	
Audio	AAC 2ch 128Kbps (1.5Mbps over), 64Kbps	s (0.8Mbps under)
Video/Audio output	3G-SDI output (BNC x 1) (up to 1920 x 1080	0 60p 4:2:2 10-bit), HDMI output x 1 (up to 3840 x 2160 60p 4:2:2 10-bit)
Audio input	XLR x 2 (MIC, +48V/LINE), ø3.5mm mini jac	:k x 1
Headphone	ø3.5mm mini jack x 1	
Remote	ø2.5mm mini jack x 1	
INTERFACES Time code input/output	RCA x 1	
USB	HOST x 1 (network connection, USB 2.0)	
Ethernet	RJ-45 x 1	
Extended slot	KA-EN200, KA-MC100G, and for future ex	pansion purposes
Wireless LAN IGY-HC55	0] Built-in (2.4GHz/5GHz) MIMO with dual ex	
PROVIDED ACCESSORIES Battery (BN-VC296) x 1,		

Various Codecs and Recording Formats

System	Video format	Resolution		Frame rate		Bit rate	Audio	Rec time (min.)	
	ProRes 422 HQ					1768/1475/884/737/707Mbps		67/80/134/161/167	
ĺ	ProRes 422	3840 x 2160	59.94p/	50p/29.97p/25p/23.98p	4:2:2 10-bit	1178/983/589/492/471Mbps	LPCM 2ch 48kHz/24bit	101/121/201/240/251	1TB SSI
	ProRes 422 LT	1				821/684/410/342/328Mbps		144/173/288/345/359	1
4K UHD					4:2:2 10-bit	150Mbps	LPCM 2ch 48kHz/24bit	50	
	QuickTime (MPEG-4.AVC/H.264)	3840 x 2160	29	9.97p/25p/23.98p	4:2:0 8-bit	150Mbps	LPCM 2ch 48kHz/16bit	50	64GB SD Car
	(1111 EG-4.2007) 11.204)				4:2:0 0-DIt	70Mbps	LPCIVI ZCH 40KHZ/ IODIE	106	
	ProRes 422 HQ	1920 x 1080	E0.04 m/l	50p/29.97p/25p/23.98p	4:2:2 10-bit	440/367/220/184/176Mbps	LPCM 2ch 48kHz/24bit	240/290/480/570/600	- 1TB SS
ĺ	ProRes 422	1720 X 1000		JUD/27.7/D/2JD/23.70D	4.2.2 10-DIL	293/245/147/122/117Mbps	LF CIVI ZCIT 40KHZ/Z4DIL	360/430/710/850/890	7116 331
[1920 x 1080		59.94p/50p		70Mbps (422 XHQ)		105	
		1720 X 1000	59.94p/59.94i	/50p/50i/29.97p/25p/23.98p	4:2:2 10-bit	50Mb	LPCM 2ch 48kHz/24bit	145	7
	QuickTime	1280 x 720		59.94p/50p		50Mbps (422 XHQ)		145	
	(MPEG-4.AVC/H.264)	10201020	59.94p/59.94i	/50p/50i/29.97p/25p/23.98p		50Mbps (XHQ)		147	7
HD		1920 x 1080	59.94i/	50i/29.97p/25p/23.98p	4:2:0 8-bit	25Mb (11110)	LPCM 2ch 48kHz/16bit	207	7
HD		1280 x 720		59.94p/50p]	35Mbps (UHQ)		207	
		1920 x 1080	59.9	94i/50i/29.97p/25p					7
	QuickTime/MXF (MPEG-2 Long GOP)	1440 x 1080		59.94i/50i	4:2:0 8-bit	35Mbps (HQ)	LPCM 2ch 48kHz/16bit	206	
	(WIPEG-2 Long GOP) [GY-HC550]	1280 x 720		59.94p/50p	4:2:0 0-DIt		LPCIVI ZCH 40KHZ/ IODIT		
		1440 x 1080		59.94i/50i] [25Mbps (SP)		283	7
ĺ	Exchange (U model)	1920 x 1080	E004p /ll mode	l only) / 50p (E/EC model only)	4:2:0 8-bit	12Mbps (LP)	AAC 2ch 48kHz/16bit	580	7
	MP4 (E/EC model)	1280 x 720	37.74p (0 mode	i oniy) / Jop (E/EC model oniy)	4.2.0 0-01	8Mbps (LP)	AAC 2011 40KH2/ 10DIL	794	7
SD	QuickTime	720 x 480 (U model)		59.94i	- 4:2:0 8-bit	8Mbps (HQ)	LPCM 2ch 48kHz/16bit	785]
30	(MPEG-4.AVC/H.264)	720 x 576 (E/EC model)		50i	4.2.0 0-01	amphs (HQ)	EF CIVI 2CH 40KH2/ IODIL	765	64GE SD car
		1280 x 720		60p/50p		6Mbps (LP)		1040	
	0.117	720 x 480		59.94i		8Mbps (HQ)		760	7
WEB (Proxy)	QuickTime (MPEG-4.AVC/H.264)	720 x 576		50i	4:2:0 8-bit	aivibps (FIQ)	µ-law 2ch 16kHz	700	
(1.10,1,1,1)	(960 x 540	29	9.97p/25p/23.98p] [3Mbps (HQ)		2160	
		480 x 270	29	9.97p/25p/23.98p		1.2Mbps (LP)		4720	
			120fps	59.94p		70Mbps (XHQ422)			
			100fps	50p	4:2:2 10-bit	70MDP3 (XI 102422)	LPCM 2ch 48kHz/24bit		
			120fps	59.94p/29.97p/23.98p	4.2.2 10-Dit	50Mbps (XHQ422)	EI GIVI ZCIT 40KT 12/24DIL		
High-	QuickTime	1920 x 1080	100fps	50p/25p		30MDP3 (XI 102422)		(Deffers by setting)	
Speed	(MPEG-4.AVC/H.264)	1720 × 1080	120fps	59.94p/29.97p/23.98p		50Mbps (XHQ)		(Deners by serung)	
			100fps 50p/25p		4:2:0 8-bit		LPCM 2ch 48kHz/16bit		
			120fps 29.97p/23.98p	29.97p/23.98p	4.2.00-01	35Mbps (UHQ)	Er Givi Zen 40kniz/1001t		
			100fps			(UPU) aquivice			

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JVC Professional Video website



Europe eu.jvc.com/pro





pro.jvc.com

4K Memory Card Camera Recorder

GY-HC550 GY-HC500



• Encodes HDR video with HLG or J-LOG Gamma LUTs. • Supports UDP, Zixi and SRT streaming protocols.

* Approved SSD media should be used. Refer to the JVC website for detailed information.

transfer of huge amounts of recorded footage is also available.

4K UHD/HD 60p/50p ProRes 422 10-bit Recording ProRes

By using the SSD media, ProRes 422 recording becomes possible for attention-grabbing 4K/HD 60p/50p image creation. ProRes 422 offers virtually lossless intra-frame compression, which speeds up post-production. Footage is recorded in native file formats that are understood by most major editing applications without transcoding. This is helpful for efficient workflow of editing and post process. The 4:2:2 format also provides richer color information and 10-bit recording delivers rich gradations—a definite advantage for grading work after recording.

Backup Recording to SSD

Backup recording to record ordinary Rec Start/Stop-controlled footage in the SD Card of slot A while recording all data on the SSD even when slot A is paused.

■ IFB and Return Video over IP (RTSP/RTP, Zixi [GY-HC550], Icecast (Audio))

The GY-HC550/HC500 features built-in IFB and Return Video decoders capable of receiving the H.264 stream over the Internet via RTSP "Pull" protocol (Return Video) and Icecast streams for the IFB. The camera can receive either IFB or Return Video, not both simultaneously. Return Video is displayed in the viewfinder and LCD and output via SDI when the pre-assigned button "Return Video" is pressed once. The second

press would return the LCD/EVF/SDI to the live video output. The HDMI output does not switch to Return Video and outputs live video all the time.



SFE-CAM is a bonded cellular hotspot that connects interactively to multiple GY-HC550/HC500 camcorders and features Peplink's patented SpeedFusionTM technology. SFE-CAM bonds multiple cellular and wireless LAN connections enabling the user to send digital video at greater speeds than you could with a single modem. Provided with dual cellular modems with redundant SIM slots and dual band Wireless LAN, you can use up to four different providers for bandwidth bonding

SRT Stream ID for Added Security

guality of video streaming.

Stream ID protects a video channel from unauthorized access. The SRT decoder only accepts streams with embedded, encoder-specified Stream IDs and all other streams are ignored. To receive multiple streams differentiated by unique Stream IDs, only a single port is necessary so that the additional security is assured when delivering video over public networks.



GY-HC550 ■ Broadcast Info Overlay on HD Video and Streaming "LIVE" mark Watermark (Pre-installed (Imported . movable or imported) TEXT 1 Logo (Imported) Program

TEXT 2: News title, Reporter name, etc. Time Temperature, etc.

Real-time broadcast information overlays are available for HD recorded video or streamed video without an external CG or production switcher.

• This feature is not available in 4K or SD mode

name, etc.

 Overlay designs can be created in various language characters using JVC's SDP Generator (free software).

Versatile Network-related Functi

SRT (Secure Reliable Transport) is a video transport protocol that optimizes video streaming performance even under unstable networks. With ARQ and FEC support, SRT brings together encryption, packet loss recovery, and jitter prevention to preserve the integrity and

IP Remote Control with Viewina

Various camera operations can be controlled via wireless/wired LAN from a smartphone, tablet and PC.

Auto/Progressive FTP

During shooting, recorded video clips are automatically uploaded to the server.



■ NTP (Network Time Protocol)

The combination of GY-HC550/HC500 and KM-IP6000/IP4100 provides an affordable multi-camera live production solution with Network Time Protocol. Suitable for compact live production and streaming studios to deliver live events such as concerts, sports, ceremonies, and conferences.

■ VITC (Vertical Interval Time Code) Can use the industry-standard TC, compatible with Haivision, VITEC, and other decoders

Built-in GPS GY-HC550 Enables location information

to be recorded or streamed as metadata



3







Go Live Streaming on the Social Network!

The GY-HC550/HC500 offers the "Easy Setup" funciton for YouTube Live and Facebook Live via simple step-by-step menu operations. e compa

Easy Setup for YouTube Live

You can select scheduled or immediate streaming (Schedule On/ Off setting) for YouTube Live.

Easy Setup for Facebook Live

Just follow the camcorder's menu settings and you can easily get ready to stream over the Facebook Live.

RTMPS Support (Real Time Message Protocol over Secure Sockets Layer)

Facebook Live requires all encoders to use the RTMPS protocol. Count on the GY-HC550/HC500 that supports

more resolution and bitrate formats of the RTMPS protocol

JVC is a member of "Facebook Live Solution Partners" https://www.facebook.com/formedia/solutions/facebo

Vertical and Square Streaming for the Social Network

Vertical or square angle of view can be selected for streaming to the applicable social network services.



Vhite guidelines will appear on the CD and viewfinder



Streaming Format Availability

Conditions: [1] Record Format:H.264, [2] without overlay and timestamp, [3] without KA-EN200G

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0.3Mbps					٠	٠	•	•	٠	٠	٠								٠	•	•	٠	٠	•	٠	•	•				



Attention: Zixi is not available with GY-HC500. For GY-HC550, Zixi and SRT protocols do not co-exist as it requires exclusive firmware to install. Choose either protocol to use when installing initiall



20×

Zoom Lens

1" CMOS 4K Image Sensor

The GY-HC550/HC500 features a 1-inch CMOS 4K image sensor for uncompromised image quality. This large sensor delivers a superior dynamic range, high S/N ratio and high sensitivity (F11 at 2000lx). Details are crisp and accurate throughout the entire image plane.

20x Optical/40x Dynamic Zoom Lens with Manual Functions

A wide angle 20x optical zoom lens for flexible magnification. When shooting in HD mode, Dynamic Zoom combines optical zoom and pixel mapping from a 4K image sensor to create seamless and lossless 40x zoom. An optical image stabilizer and chromatic aberration correction are also available.





HLG & J-Log 1 Color Gamut







[HLG Workflow]

GY-HC550/HC500 supports HLG recording which enables simple HDR workflow without color grading. Avoiding clipped highlights or shadows, images are more realistic and vibrant. BT.2020 which offers wider color gamut is also supported.

High-Speed Recording for **1080p Slow Motion Playback**

Extremely Practical Auto Focus and Assist Functions

The Auto Focus and Focus Assist functions provide the highly accurate, stable focusing that is essential for 4K shooting. Moreover, its broad customizability enables it to perform in a variety of shooting situations.

Robust Body and Excellent in Weather Resistance

Auto Color Matrix Adjustment



Switchable IR Shooting

Remote Zoom Ease

under LED Light

"Remote Zoom Ease" provides zoom operation sensitivity on the wired remote, similar to the zoom lever on the camcorder handle.



Original image at wide end



The GY-HC550/HC500 is equipped with an HDR compatible HLG (Hybrid Log Gamma) mode and JVC's proprietary J-Log 1 Gamma mode. These enable high dynamic range capture of a broad color spectrum with 10-bit recording for better color grading and to avoid banding. Footage recorded in HLG mode will deliver a full HDR image when viewed on HLGcompatible monitors. The J-Log 1 mode delivers wide latitude and a high dynamic range of 800%. In the field, it's possible to record while checking the image on the camera's LCD screen or viewfinder to get a grasp of the final output.

High-speed recording (1920x1080) at up to 120fps (59.94Hz)/100fps (50Hz) is available 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.





When the face turns away and face detection fails, focus comes into the subject in the background



When face dete focusing automatically switch to MF while maintaining the focus on the position of the face

Designed to work in harsh environments, its weather-resistant robust body enables image gathering in the field with confidence.

IR filter can be switched disabled (Infrared ON) to increase infrared sensitivity for shooting in extremely low illuminance. The IR shooting function can be assigned to the "USER" button.

Auto Color Matrix Adjustment reproduces natural images when shooting under LED lighting in Full Auto mode.



CONNECTED CAM STUDIO

LIVE STREAMING PRODUCTION SUITE

KM-IP6000/IP4100 Series is the centerpiece of a complete IP workflow for news, sports, worship and education. This selfcontained control room features a production switcher that offers instant-replays and slow motion with an intuitive touchscreen operation.



KM-IP6000 (6-input) / KM-IP4100 (4-input)

- HD-SDI input, IP stream input, NDI input (x6 for KM-IP6000, x4 for KM-IP4100)
- Integrated JVC camcorder remote control
- Up to 1920x1080 30p/25p or 1280x720 60p/50p streaming @ 10Mbps max
- RTMP & MPEG-TS simultaneous output
- Internal character generator with templates
- 4 layers of DSK CG/images/animations with transparency
- Replay and Slow Motion
- Return over IP
- SRT Compatible
- Multi-Camera Synchronization
- Equipped with multi-camera synchronization, Network Time Protocol synchronized encoders.



Zero Config Capability

Provides automatic detection of JVC camcorders within the same LAN group, and simple setting up of connections with the KM-IP6000/KM-IP4100.



IP REMOTE CONTROL PANEL RM-LP250S (Joystick version) / RM-LP250M (Encoder version)

RM-LP250S/LP250M is an IP based remote control panel for CONNECTED CAM models (GY-HC500 Series and GY-HC900 Series). It enables versatile control of iris functions and other camera settings with ethernet connection (RJ-45).

RM-LP250S: Can control a single camera RM-LP250M: Can control up to 3 cameras

RM-LP250M

Basic System Configurations



Item	Model	Description	Qty
1	RM-LP250M (Encoder)	IP Remote Control Panel	1
2	GY-HC500	4K Memory Card Camera Recorder	3
3	KM-IP4100	LIVE STREAMING PRODUCTION SUITE	1
4	Monitor	(for use with KM-IP4100)	1

ltem	Model	Description	Qty
5	Monitor		1
6	Microphone		1
7	Cantral	LAN Cable	6
8	Control	HUB (PoE+ for RM-LP250M)	1
9	Internet Connection	Broadband Router (to connect the Internet)	



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SB dongle

* Select either one at initial firmware installation