

# JVC

HD Memory Card Camera Recorder

# GY-HC900

## CONNECTED CAM™

**SRT**  
SECURE  
RELIABLE  
TRANSPORT

**Z/X**

**HDR**  
High Dynamic Range

**ProRes**

**MPEG-2**

**SD**

**XC**



## The Ultimate Live-Over-IP

Product photo shown with optional equipment.

# CONNECTED CAM™

Ready for Various Recording Needs

H.265/HEVC  
Streaming

Apple ProRes 422  
Recording

H.265/  
HEVC

KA-EN200G: H.265/HEVC  
Streaming Adapter



SSD  
Solid State Drive

KA-MC100G: SSD Media  
Adapter



With the optional KA-EN200G H.265/HEVC Streaming Adapter attached, high-quality and efficient IP video transmission is possible.

- H.265 compression produces similar or better image quality than H.264 at 50% of bitrate.
- Supports contribution quality of 4:2:2 10-bit HEVC encoding.
- Encodes HDR video with HLG or J-LOG Gamma LUTs.
- Supports UDP, Zixi and SRT streaming protocols.

ProRes

HD 30p/25p/24p ProRes 422  
10-bit Recording

By using the SSD media, ProRes 422 recording becomes possible for attention-grabbing HD 30p/25p/24p 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.

You can use a large-capacity, readily-available SSD (SATA M.2 SSD Type2280) as recording media. Just insert it in the optional KA-MC100G and attach to the camera. SSD media delivers excellent sequential read speed to tackle professional workload. High-speed transfer of huge amounts of recorded footage is also available.

## 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.

## 70Mbps 4:2:2 10-bit Recording (H.264) and Standard MPEG-2 (35Mbps) Recording

Other recording formats include the H.264 Extreme-High Quality (XHQ) 70Mbps (MOV) 4:2:2 10-bit mode for virtually no block noise even when recording rapid action sequences. Also supported is MPEG-2 Long GOP recording up to 35Mbps; a widely used format by television broadcasters. These recording formats can be recorded on SDXC/SDHC Memory Cards.



## 2/3-inch 3CMOS Sensors with High Sensitivity of F12 (60Hz)/F13 (50Hz)

The GY-HC900 is equipped with three 2/3-inch 2.2 megapixel CMOS sensors, combined with an F1.4 prism to deliver full HD 1920 x 1080 images with excellent sensitivity of F12 at 60Hz/F13 at 50Hz, a remarkable signal-to-noise ratio of 62dB, and a wide dynamic range.

## Industry-Standard B4 Lens Mount

You can install a wide selection of existing B4 ENG lenses.



## Professional OLED Viewfinder

A professional 3.26" OLED viewfinder offering excellent visibility comes equipped as standard\*, making focusing is easy. Also present is a 3.5" LCD panel for menu navigation.



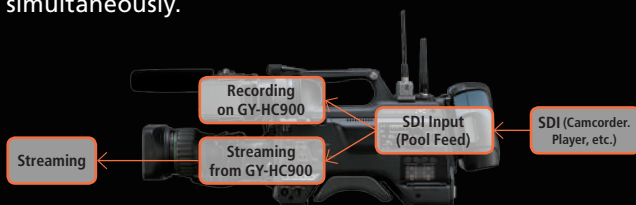
\*Provided with GY-HC900CHU/HC900CHE, optional for GY-HC900STU/HC900RCHE.

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

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).

## 3G-SDI Pool Feed Input

An integrated 3G-SDI pool feed input allows the GY-HC900 operator to capture video and stream it live simultaneously.

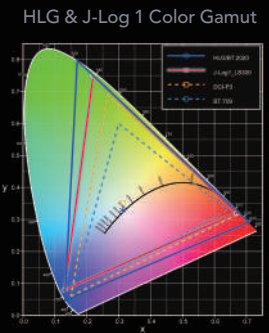


## Magnesium Alloy Body and IPX2 Equivalent Weather Resistance

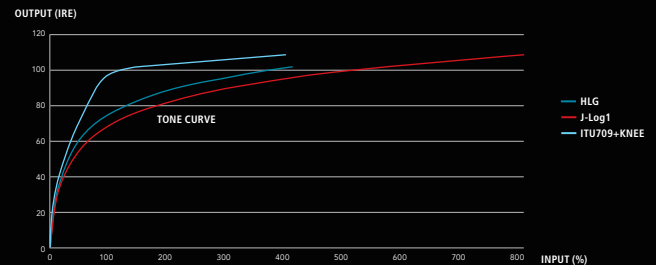
Its robust body makes the GY-HC900 ready to work in harsh environments and situations.

## HDR via HLG/J-Log 1

The GY-HC900 is equipped with the 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 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 HLG-compatible monitors. The J-Log 1 mode delivers wide latitude and a high dynamic range of 800%.



J-Log 1 and Rec709+Knee Gamma



## 16-Axis Color Matrix Adjustment

The GY-HC900 offers wide-range 16-Axis Color Matrix adjustability. This enables fine adjustment over a wide spectrum including subtle skin tones while recording and relaying video using multiple cameras.



## INTEROP and Sports Exchange Format Support

Thanks to INTEROP and Sports Exchange Standard format support (in US market only), sports organizations can produce HD video with rich metadata that specifically addresses the workflow needs of sports production and video coaching applications.

## And More Recording Flexibility

- Series Rec
- Backup Rec
- Frame Rec
- Splitting Clips Freely
- Dual Rec
- Clip Continuous Rec
- Interval Rec



## GY-HC900 Series Model Comparison

	GY-HC900CHU	GY-HC900STU	GY-HC900CHE	GY-HC900RCH
Lens	Not included			
Electronic Viewfinder (VF-E900G)	Included	Not included	Included	Not included
Battery Mount Type	Anton Bauer	Anton Bauer	IDX	IDX
GPS	Built-in	Not supported	Built-in	Not supported
Wireless LAN 2.4G/5G	Built-in	Not supported	Built-in	Not supported

## Ready for Quality, Reliable Streaming

SRT

Zixi

SMPTE 2022-1



Various Protocols for QoS including SRT, Zixi\*, and SMPTE 2022-1

For quality, reliable streaming, the CONNECTED CAM camcorders feature various QoS (Quality of Service) capabilities including SRT, Zixi and SMPTE 2022-1. Forward error correction (FEC), automatic repeat request (ARQ), and adaptive bitrate control are supported to ensure error-free video delivery in packet loss environments such as when streaming over cellular networks.



### ATTENTION

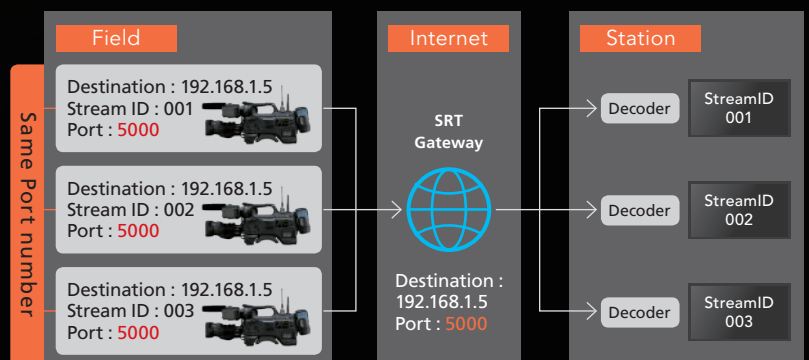
SRT and Zixi protocols do not co-exist as it requires exclusive firmware to install. Choose either protocol to use when installing initially.

### SRT – Powerful Video Transport Protocol

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 quality of video streaming.

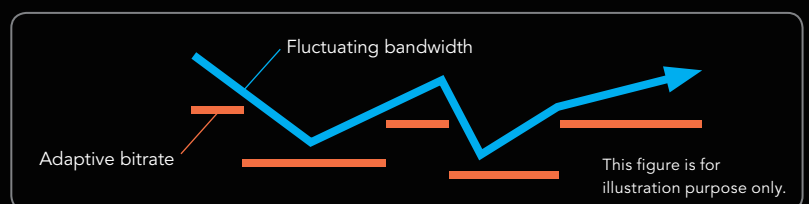
### SRT Stream ID for Added Security

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.



### SRT Network Adaptive Bitrate

Sender is able to monitor the delivery status, and can spontaneously adjust to achieve the optimum bit rate.



### SRT PCR (Program Clock Reference) Fast Mode

“Standard” and “Fast” modes available. Fast mode offers low latency with delay time shortened by about 100ms to 200ms than that of Standard. (Tested using JVC BR-DE900)

# Versatile Live-over-IP Capabilities

## IFB and Return Video over IP (SRT, RTSP/RTP, Zixi, Icecast (Audio))

The GY-HC900 is a professional camcorder that delivers a variety of features and performance required in the field with IP connectivity. Count on camera-to-studio and studio-to camera two-way data communication to enable you to build an advanced Live-over-IP workflow solution. The GY-HC900 features built-in IFB and Return Video decoders capable of receiving the H.264 stream over the Internet via various protocols (SRT, RTSP/RTP, Zixi) for Return Video and Icecast streams for the IFB. The camera can receive either IFB or Return Video, not both simultaneously.

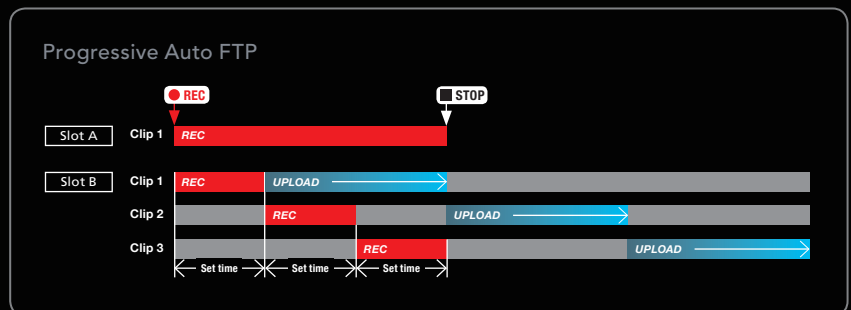
## Live Streaming up to 24Mbps with Low Latency

The GY-HC900 is capable of streaming live HD/SD and proxy video/audio files via network up to 24 Mbps with low latency. High quality, stable streaming is possible from the files using just the camera itself\*. No need to carry a backpack unit or external devices.

\*With appropriate network connection

## Progressive Auto FTP Upload

When set to the HD+Web Setting mode, proxy files being recorded in slot B will be automatically split at preset time intervals and uploaded to the FTP server while continuing recording. Preset time are selectable from 15sec/30sec/45sec/60sec/90sec/3min/5min/10min/15min.



## IP Remote Control with Viewing

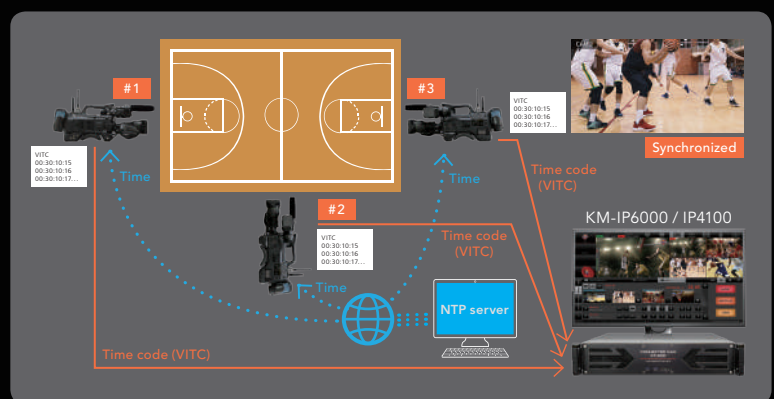
Various camera operations can be controlled via wireless/wired LAN from a smartphone, tablet and PC.

## Built-in GPS

Enables location information to be recorded or streamed as metadata.

## VITC (Vertical Interval Time Code) with NTP(Network Time Protocol)

Using Time Code (VITC/LTC) with NTP (Network Time Protocol), three cameras are synchronized enabling easy multi-camera live production. Suitable for compact live production and streaming studio such as for concerts, sports, and conferences.



## Broadcast Info Overlay on HD Video and Streaming

Real-time broadcast information overlays are possible for HD video/streamed video. Overlay info output is On/Off selectable for both recorded video and live streaming. Overlay designs can be created in various language characters using JVC's SDP Generator (free software).





## ENG STUDIO

The CONNECTED CAM expands complete IP-based solution, connecting the field and the studio.



## LIVE EVENT PRODUCTION

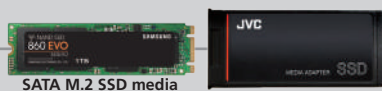
### ● Basic Recording/Streaming Configuration



Basic Recording on SDHC/SDXC Memory Card

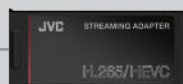


ProRes 422 Recording on SSD



Choose either one — as only one extended slot is available.

H.265/HEVC Streaming



#### Basic Recording on SDHC/SDXC Memory Card

Item	Model	Description	Qty
1	GY-HC900CHU (GY-HC900CHE)	HD Memory Card Camera Recorder (Viewfinder included)	1
2	KJ20X8.2B KRSD	2/3" Zoom Lens	1
3	BP4029 (audio-technica)	Stereo Shotgun Microphone	1
4	XLR 5-pin (female) – XLR 5-pin (male) Cable	Connects BP4029 to GY-HC900	1
5	EK 6042 (Senheiser)	Dual-Channel Slot-Mount Wireless Receiver	1
6	Battery and Power System		
7	SDHC/SDXC Memory Card		

#### ProRes 422 Recording on SSD

Item	Model	Description	Qty
8	KA-MC100G	SSD Media Adapter	1
9	SSD Media	SATA M.2 SSD (Up to 2TB, Western Digital/ SAMSUNG)	1

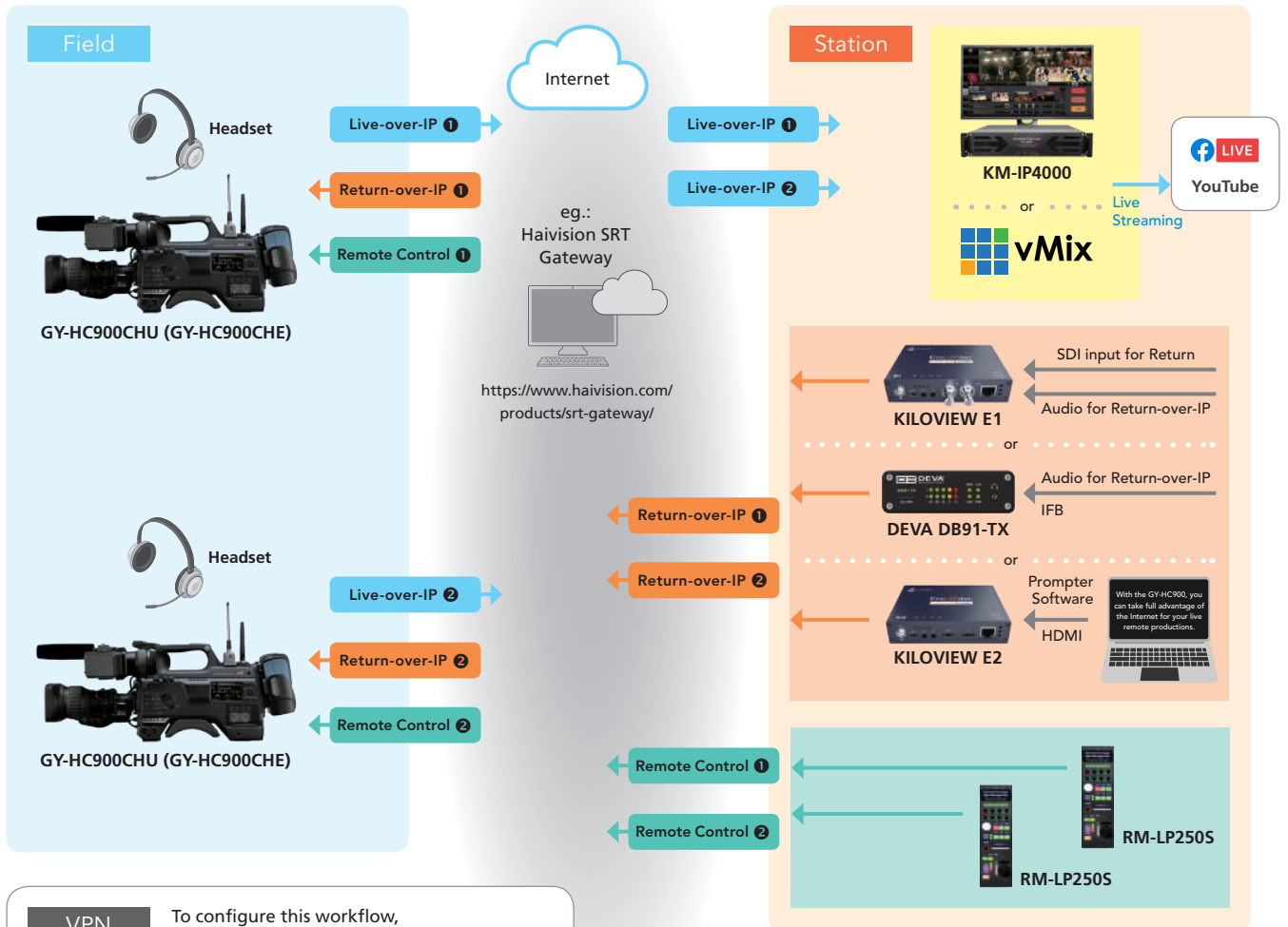
#### H.265/HEVC Streaming

Item	Model	Description	Qty
8	KA-EN200G	H.265/HEVC Streaming Adapter	1
9	BR-DE900	Decoder	1

## ● SRT Remote Production over the Internet (REMI)

With the GY-HC900, you can take full advantage of the Internet for your live remote productions. Just bring your camera operators on location—no massive external devices requiring teams of people to operate are necessary. Connect via LAN, Wi-Fi or 4G/5G LTE\* to transport broadcast quality video to a remote studio—even receive return video and IFB—all over the Internet. This new production style enables you and your staff to maximize results while minimizing your equipment needs.

\*Availability differs by model.



**VPN** To configure this workflow, VPN (Virtual Private Network) is required.  
eg.: SpeedFusion™ of Peplink (peplink.com)

**SFE-CAM**  
Peplink SpeedFusion Engine Camera-Dockable

**Balance 210**  
Peplink Balance SD-WAN Router

### GY-HC900 Camera System

Item	Model	Description	Qty	Live-over-IP
1	GY-HC900CHU (GY-HC900CHE)	HD Memory Card Camera Recorder (Vivfinder included)	2	
2	KJ20X8.2B KRSD	2/3" Zoom Lens	2	
3	BP4029 (audio-technica)	Stereo Shotgun Microphone	2	
4	XLR 5-pin (female) – XLR 5-pin (male) Cable	Connects BP4029 to GY-HC900	2	
5	EK 6042 (Senheiser)	Dual-Channel Slot-Mount Wireless Receiver	2	
6		Headset	2	
7	Battery and Power System			
8	SDHC/SD/SDXC Memory Card			
9	Internet Connection (Requires also for "Station" side)			

### KM-IP4000

Model	Description	Qty	Live-over-IP
KM-IP4000	LIVE STREAMING PRODUCTION SUITE	1	
Monitor	Monitor for KM-IP4000	1	

### vMix (vmix.com)

Model	Description	Qty	Live-over-IP
vMix		1	

### Return Video (with Audio) over the Internet

Model	Description	Qty	Return-over-IP
KILOVIEW E1	H.264 HD SDI to IP Wired Video Encoder Converter		
Audio	Studio Audio Mixer, etc.		

### IFB (Talkback) over the Internet [Protocol: Icecast]

Model	Description	Qty	Return-over-IP
DEVA DB91-TX	Compact IP Audio Encoder		
Audio	Studio Audio Mixer, etc.		

### Prompter over the Internet

Model	Description	Qty	Return-over-IP
KILOVIEW E2	H.264 HDMI to IP Wired Video Encoder		
PC	With Prompter Software installed		

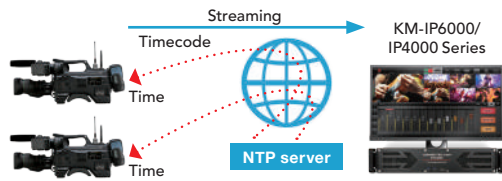
### Remote Control

Model	Description	Qty	Remote Control
RM-LP250S (Joystick)	IP Remote Control Panel	2	

# CONNECTED CAM STUDIO

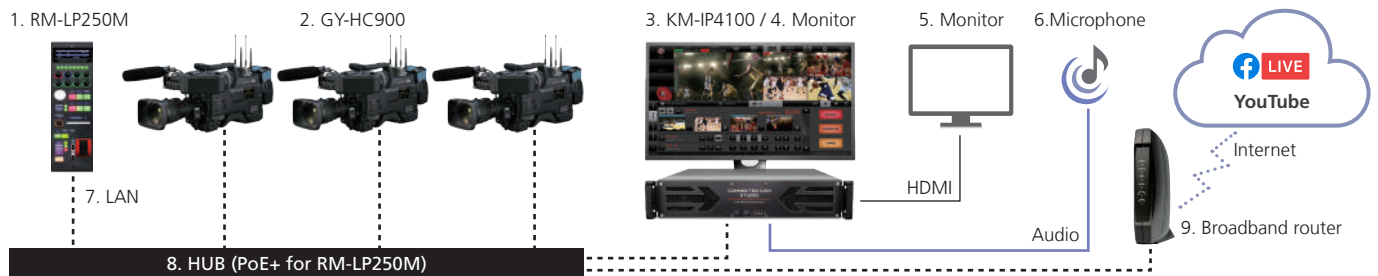
## LIVE STREAMING PRODUCTION SUITE

KM-IP6000 (6-input) /  
KM-IP4100/4000/4000S (4-input)



- HD-SDI input, IP stream input, NDI input (x6 for KM-IP6000, x4 for KM-IP4000 Series)
- 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
- Multi-Camera Synchronization
- Return over IP
- Zero Config Capability
- SRT Compatible



Controlling 3 cameras with a controller and a mixer.

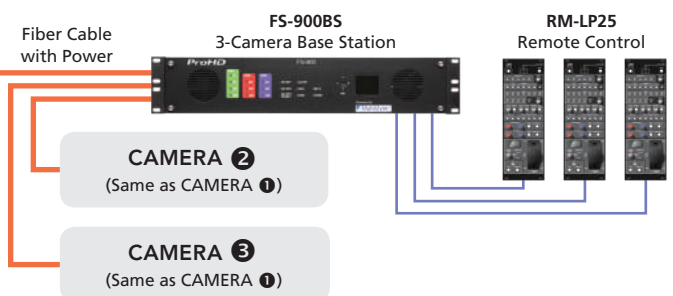
Item	Model	Description	Qty
1	RM-LP250M (Encoder)	IP Remote Control Panel	1
2	GY-HC900 (See Basic Configuration on page 5)	HD Memory Card Camera Recorder	3
3	KM-IP4100/4000/4000S	LIVE STREAMING PRODUCTION SUITE	1
4	Monitor	(for use with KM-IP4100)	1

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

## Fiber Remote Studio System



The GY-HC900 is an ideal choice for high-end EFP and studio fiber applications. It works with the FS-900 camera module, which attaches seamlessly to the back of the GY-HC900 via a 68-pin interface, and feeds 3G-SDI signals, control, audio, sync, and intercom to a base station via fiber.



### GY-HC900 Camera System

Item	Model	Description	Qty
1	GY-HC900STU (GY-HC900RCHE)	HD Memory Card Camera Recorder	3
2	VF-HP900	WUXGA Studio Viewfinder	3
3	SK-900J	Studio Kit for VF-HP900	3
4	KJ20X8.2B KRSD	2/3" Zoom Lens	3
5	KA-551U	Tripod Adapter	3
6		Tripod	3
7	HZ-FR15G	Manual Focus Control Unit	3
8	HZ-AS1G	Manual Zoom Control Unit	3
9		Headset	

### MULTIDYNE Fiber Remote System

Item	Model	Description	Qty
10	FS-900CAM	Camera Fiber Adapter	3
11	FS-900BS	3-Camera Base Station	1
12		Fiber Cable (up to 200m)	3

### Remote Control

Item	Model	Description	Qty
13	RM-LP25	Remote Control Unit	3

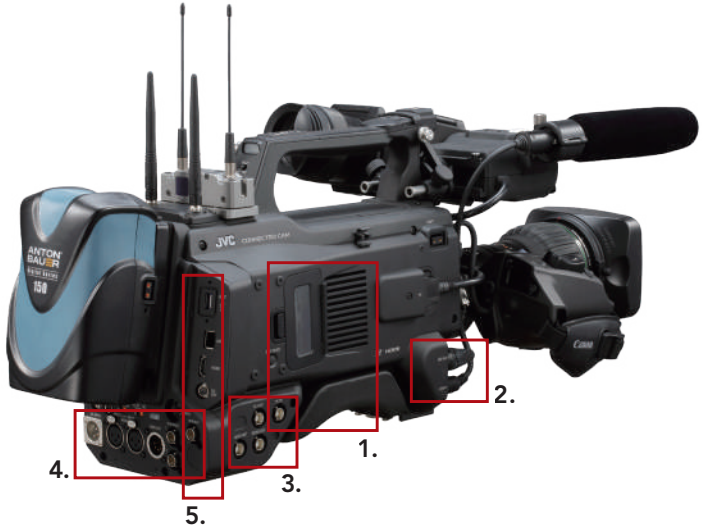


# Usability and Connectivity



- SDHC/SDXC Card Slots
  - Card Slot Selector

Dual slots enable series recording, dual recording, and backup recording using two cards.



- Mic In
- XLR 5-pin for stereo audio input.



- TC Out • TC In • Video Out • Genlock
- Equipped with genlock input and timecode in/out terminals, the GY-HC900 can be easily integrated into multi-camera setups.



- XLR Audio In (x2) • XLR Audio Out • SDI Out (x2) • SDI In • DC Out (12V) • DC In • Phone • Remote
- SDI input with 3G-SDI pool feed capability for simultaneous recording and live streaming. Two XLR audio inputs are switchable between microphone (with phantom power support) and line input, plus stereo AUX inputs.



- USB Host (USB3.0)
    - LAN (RJ-45) • HDMI
    - DC Out (12V)
- Various IP connections available via RJ-45 (Wired LAN) and Host USB (3.0). DC out for power supply to peripheral equipment.

# GY-HC900 Streaming Format Availability

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

Resolution	1920x1080												1280x720												
	60p, 50p (Not available in MPEG2 recording)						60i, 50i			30p, 25p			60p, 50p			30p, 25p									
Frame Rate																									
Type	MPEG2-TS/UDP	MPEG2-TS/TC	MPEG2-TS/RTMP	RTSP/RTMP	Zixi	SRT (FEC Off)	SRT (FEC On)	RTMP	RTMPS	MPEG2-TS/UDP	MPEG2-TS/TC	MPEG2-TS/RTMP	RTSP/RTMP	Zixi	SRT	RTMP	RTMPS	MPEG2-TS/UDP	MPEG2-TS/TC	MPEG2-TS/RTMP	RTSP/RTMP	Zixi	SRT	RTMP	RTMPS
24Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.5Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0.8Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0.3Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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

Facebook Live requires all encoders to use the RTMPS protocol. Count on the HC900 that supports more resolution and bitrate formats of the RTMPS protocol.

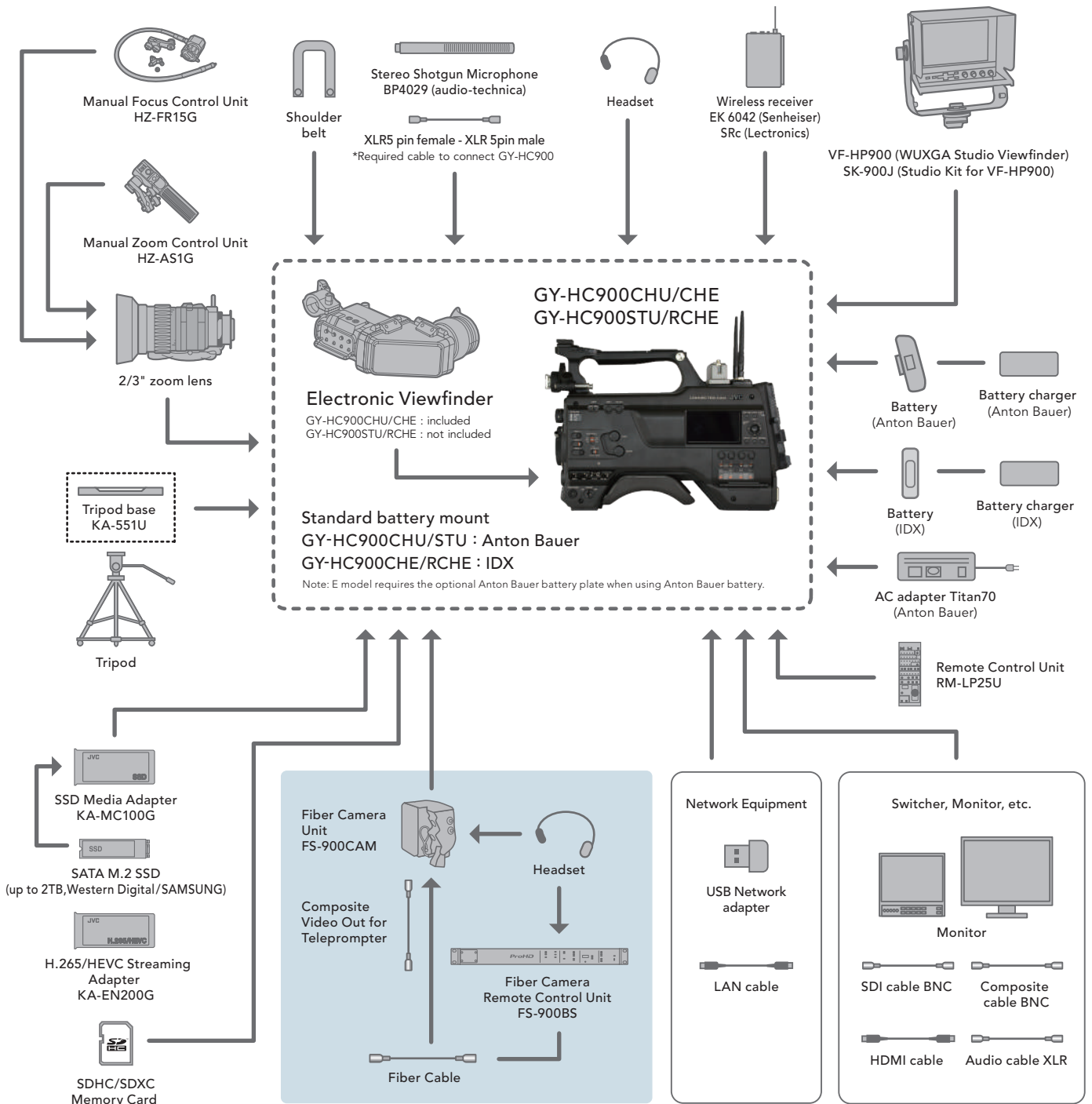
Note: Refer to "ATTENTION" on page 3 for availability of SRT/Zixi.

Resolution	720x480 or 720x576		640x360					
	60i, 50i (Not available in MPEG2 recording)		60p, 50p			30p, 25p		
Frame Rate								
Type	MPEG2-TS/UDP	MPEG2-TS/TC	MPEG2-TS/RTMP	RTSP/RTMP	Zixi	SRT	RTMP	RTMPS
24Mbps	•	•	•	•	•	•	•	•
20Mbps	•	•	•	•	•	•	•	•
16Mbps	•	•	•	•	•	•	•	•
12Mbps	•	•	•	•	•	•	•	•
8Mbps	•	•	•	•	•	•	•	•
5Mbps	•	•	•	•	•	•	•	•
3Mbps	•	•	•	•	•	•	•	•
1.5Mbps	•	•	•	•	•	•	•	•
0.8Mbps	•	•	•	•	•	•	•	•
0.3Mbps	•	•	•	•	•	•	•	•

## KA-EN200G: H.265/HEVC Streaming Format

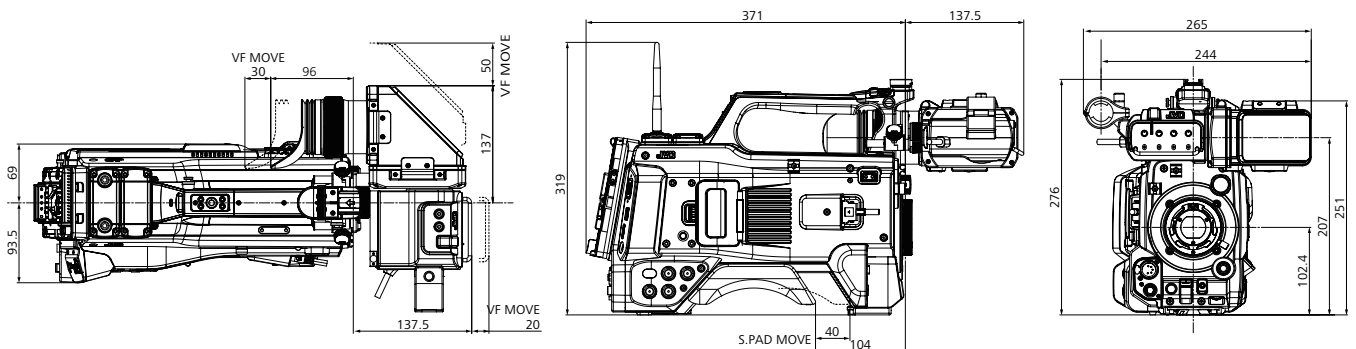
Resolution	1920x1080						1280x720					
	60p, 50p			30p, 25p			60p, 50p			30p, 25p		
Frame Rate												
Type	MPEG2-TS/UDP	Zixi	SRT	MPEG2-TS/UDP	Zixi	SRT	MPEG2-TS/UDP	Zixi	SRT	MPEG2-TS/UDP	Zixi	SRT
24Mbps	•	•	•	•	•	•	•	•	•	•	•	•
20Mbps	•	•	•	•	•	•	•	•	•	•	•	•
16Mbps	•	•	•	•	•	•	•	•	•	•	•	•
12Mbps	•	•	•	•	•	•	•	•	•	•	•	•
8Mbps	•	•	•	•	•	•	•	•	•	•	•	•
5Mbps	•	•	•	•	•	•	•	•	•	•	•	•
3Mbps	•	•	•	•	•	•	•	•	•	•	•	•
1.5Mbps	•	•	•	•	•	•	•	•	•	•	•	•
0.8Mbps	•	•	•	•	•	•	•	•	•	•	•	•
0.3Mbps	•	•	•	•	•	•	•	•	•	•	•	•

# System Configuration




























# Dimensions

Unit : mm



# Options

<p>2/3" Zoom Lens KJ20x8.2BKRSD</p>  <p><b>Canon</b></p>	<p>2/3" Zoom Lens XA20sx8.5BERM</p>  <p><b>FUJIFILM</b> Value from Innovation</p>	<p>Electronic Viewfinder VF-E900G</p>  <p>GY-HC900CHU/CHE : included GY-HC900STU/RCHE : not included</p>
<p>WUXGA Studio Viewfinder VF-HP900 Studio Kit for VF-HP900 SK-900J</p> 	<p>Manual Focus Control Unit HZ-FR15G</p>  <p>Manual Zoom Control Unit HZ-AS1G</p>  <p>Tripod Base KA-551U</p> 	<p>Remote Control Unit RM-LP25U</p>  <p>Remote Camera Controller via LAN RM-LP100</p> 
<p>Stereo Shotgun Microphone BP4029</p>  <p>*Required cable to connect GY-HC900 XLR5 pin female - XLR 5pin male</p> <p><b>audio-technica</b></p>	<p>Battery Dionic XT150</p>  <p>Battery Charger/ AC Adapter Tandem 70</p>  <p><b>ANTON BAUER</b></p>	<p>Battery DUO-C198</p>  <p>AC Adapter Power Supply IA-70a</p>  <p><b>I.D.</b></p>
<p>Multi-Camera Fiber Optic System</p>  <p>FS-900CAM      FS-900BS</p> <p>Fiber Cables <a href="http://pro.jvc.com/prof/attributes/features.jsp?&amp;feature_id=01&amp;model_id=MDL102409">http://pro.jvc.com/prof/attributes/features.jsp?&amp;feature_id=01&amp;model_id=MDL102409</a></p> <p><b>MultiDyne</b> Video &amp; Fiber Optic Systems</p>	<p>SSD Media Adapter KA-MC100G</p> <p>SSD media is not included.</p>  <p><b>JVC</b></p>	<p>SAMSUNG 860 EVO SATA M.2 SSD 2TB (1TB/500GB)</p>  <p><b>SAMSUNG</b></p> <p>WD Blue™ SATA SSD M.2 2280 2TB (1TB/500GB)</p>  <p><b>Western Digital</b></p>
<p>H.265/HEVC Streaming Adapter KA-EN200G</p> 	<p>Live Streaming Production Suite KM-IP6000 KM-IP4100 KM-IP4000/S* *for Americas market</p>  <p>Monitor is not included.</p>	<p>IP Remote Control Panel RM-LP250S (Joystick version) Control x1 camera recorder RM-LP250M (Encoder version) Control x3 camera recorder</p> 
<p>SpeedFusion Engine Camera-Dockable SFE-CAM</p>  <p>Balance SD-WAN Router Balance 210</p>  <p><b>peplink</b></p>	<p>Streaming Management Server zRAMP-4 (Zixi zRAMP 4-in/4-out) zRAMP-2 (Zixi zRAMP 2-in/2-out)</p>  <p><b>ZIXI</b></p>	<p>ProHD Decoder BR-DE900</p> 

# Specifications

GENERAL SPECIFICATIONS	Power	DC 12V (11V – 17V)
	Power consumption	Approx. 38W (VF on, in REC mode, default setting) / Approx. 33W (Body only, in REC mode, default setting)
	Dimensions (W x H x D)	165 mm x 269 mm x 379 mm
	Weight	Approx. 4.1 kg (9.0 lbs.) (Body only)
	Temperature	Operating: 0°C to 40°C, Storage: -20°C to 50°C
	Humidity	Operating: 30% to 80%, Storage: Under 85%
	Ingress protection	IPX2 equivalent
CAMERA	Image sensor	2/3-inch 2.2M pixels progressive 3 CMOS
	Lens mount	2/3-inch B4 mount system
	Sensitivity	F12 (60Hz), F13 (50Hz) at 2000lx (typical)
	Shutter speed	1/3 to 1/10000, EEI
	Gain	-6dB, -3dB, 0dB, 3dB, 6dB, 9dB, 12dB, 15dB, 18dB, 21dB, 24dB, 27dB, 30dB, Lolux (24dB, 30dB, 36dB, 42dB), AGC
	ND filter	None, 1/4, 1/16, 1/64
	S/N ratio	62dB
VIDEO/AUDIO RECORDING	Viewfinder	3.26" OLED, WVGA (854 x 480), 16:9
	LCD monitor	3.5" LCD, QHD (960 x 540), 16:9
	Recording media	SDHC/SDXC memory card x 2 (HD: Class 6/10, SD/Web: Class 4, High-Speed: UHS-1 U3)
	Video Recording	SSD (Solid State Drive) Type M.2 SATA with KA-MC100G (optional) Video codec: ProRes 422 MPEG-4 AVC/H.264 (HD/SD), MPEG-2 (HD) File format: MOV, MP4, MXF
LIVE VIDEO STREAMING	Audio Recording	LPCM 2ch/4ch, 48kHz/16-bit (MOV/MXF), 48kHz/24bit (XHQ 4:2:2 10bit), µ-Low 2ch/4ch (Proxy), Exchange (MP4) AAC 2ch
	Protocol	MPEG2-TS/UDP, MPEG2-TS/TCP, MPEG2-TS/RTP, RTSP/RTP, RTMP, RTMPS, SRT*, Zixi*
	Resolution and bit rate	>> Refer to "Streaming Format Availability" chart on page 7 for details.
	Retrun over IP	RTSP/RTP, Icecast(Audio), SRT*, Zixi* Audio AAC 2ch 128Kbps (1.5Mbps over), 64Kbps (0.8Mbps under)
INTERFACES	Video input	3G-SDI (BNC x 1)
	Video output	3G-SDI (BNC x 2), HDMI x 1, Composite (BNC x 1)
	VF terminal	26-pin
	Audio input/output	XLR 3-pin x 2, (MIC, +48V, LINE)/XLR 5-pin
	MIC input	XLR 5-pin
	Genlock input	Genlock input (BNC x 1)
	Time code input/output	BNC x 1/BNC x 1
	Remote	mini DIN 6-pin x 1
	USB	HOST (Type A USB 3.0) x 1 (Network)
	Ethernet	RJ-45 x 1
	DC input	XLR 4-pin x 1
	DC output/Light DC output	4-pin x 2, D-tap x 1
	Built-in slot	Wireless audio module (D-sub25 (UniSlot)) and Expansion slot for KA-EN200G or KA-MC100G
Wireless LAN	Built-in (2.4 GHz/5 GHz) [GY-HC900CHU/GY-HC900CHE]	
PROVIDED ACCESSORIES	Electronic viewfinder [GY-HC900CHU/GY-HC900CHE], Mount cap, Instruction manual (Basic)	

\* Refer to "ATTENTION" on page 3 for availability of SRT/Zixi.

## Recording Formats

System	Video format	Resolution	Frame rate	Bit rate	Audio	Rec time (min.)					
HD	ProRes 422	1920 x 1080	29.97p/25p/23.98p	4:2:2 10-bit	147/122/117Mbps	LPCM 2ch 48kHz/24bit	700/840/870	1TB SSD			
			59.94p/50p	70Mbps (422 XHQ)	90						
	QuickTime (MPEG-4.AVC/H.264)	1280 x 720	59.94p/50p/50i/29.97p/25p/23.98p	4:2:2 10-bit		50Mbps (422 XHQ)	LPCM 2ch/4ch 48kHz/24bit		136		
			59.94p/50p	50Mbps (XHQ)	140						
		1920 x 1080	59.94i/50i/29.97p/25p/23.98p	4:2:0 8-bit	35Mbps (UHQ)	LPCM 2ch/4ch 48kHz/16bit	192				
			59.94p/50p	192							
	QuickTime/MXF (MPEG-2 Long GOP)	1440 x 1080	59.94i/50i/29.97p/25p		4:2:0 8-bit	35Mbps (HQ)	LPCM 2ch/4ch 48kHz/16bit		192		
			59.94p/50p	25Mbps (SP)		260					
			59.94i/50i	12Mbps (LP)						640	
	Exchange (U model) MP4 (E model)	1280 x 720	59.94p (U model only) / 50p (E model only)	4:2:0 8-bit	8Mbps (LP)	AAC 2ch 48kHz/16bit	980				
			720 x 480 (U model)	59.94i	4:2:0 8-bit	8Mbps (HQ)	LPCM 2ch/4ch 48kHz/16bit		640		
	720 x 576 (E/EC model)	50i	6Mbps (LP)			µ-law 2ch/4ch 16kHz				864	
SD	QuickTime (MPEG-4.AVC/H.264)	1280 x 720	60p/50p	4:2:0 8-bit	8Mbps (HQ)		640				
			720 x 480		59.94i	8Mbps (HQ)		640			
			720 x 576		50i	3Mbps (HQ)			1920		
			960 x 540		29.97p/25p/23.98p	1.2Mbps (LP)				3840	
			480 x 270		29.97p/25p/23.98p	70Mbps (XHQ422)					LPCM 2ch 48kHz/24bit
High-Speed	QuickTime (MPEG-4.AVC/H.264)	1920 x 1080	120fps	4:2:2 10-bit	50Mbps (XHQ422)		LPCM 2ch 48kHz/24bit				
			59.94p								
			100fps	50p	4:2:0 8-bit		35Mbps (UHQ)	LPCM 2ch 48kHz/16bit			
			120fps	59.94p/29.97p/23.98p							
			100fps	50p/25p	4:2:0 8-bit	35Mbps (UHQ)	LPCM 2ch 48kHz/16bit				
			120fps	59.94p/29.97p/23.98p							
			100fps	50p/25p	4:2:0 8-bit	35Mbps (UHQ)	LPCM 2ch 48kHz/16bit				
			120fps	29.97p/23.98p							
			100fps	25p	4:2:0 8-bit	35Mbps (UHQ)	LPCM 2ch 48kHz/16bit				
			100fps	25p							

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