

GY-HC500

CONNECTED CAMT



















KA-EN200G: H.265/HEVC Streaming Adapter



KA-FN200G

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.



KA-MC100G: SSD Media Adapter



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 and its high-capacity extends recording time of 4K UHD video. High-speed transfer of huge amounts of recorded footage is also available.

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

ProRes

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

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, Icecast (Audio))

The GY-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-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.





Various Protocols for QoS including SRT and SMPTE 2022-1

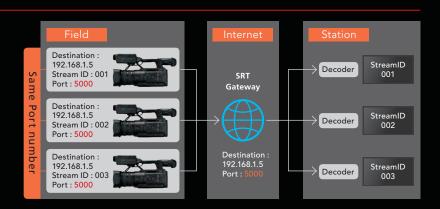
For quality, reliable streaming, the CONNECTED CAM camcorders feature various QoS (Quality of Service) capabilities including SRT and SMPTE 2022-1. Forward error correction (FEC), automatic repeat request (ARQ), and adaptive bitrate control are supported to ensure error-free video delivery in packet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

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.



■ IP Remote Control with Viewing

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.

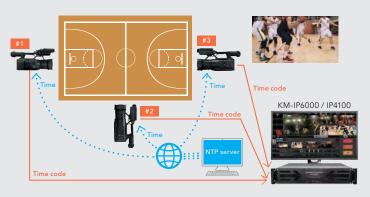


■ VITC (Vertical Interval Time Code)

Can use the industry-standard TC, compatible with Haivision, VITEC, and other decoders.

■ NTP (Network Time Protocol)

The combination of GY-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.







Go Live Streaming on the Social Network!

The GY-HC500 offers the "Easy Setup" function for YouTube Live and Facebook Live via simple step-by-step menu operations.

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-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/facebook-live

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.



White guidelines will appear on the LCD and viewfinder.



Streaming Format Availability

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

Resolution		1920x1080														6 10	606x1080, 1080x1080																														
Frame Rate				é	60p	, 50)p						60i,	50i				30p, 25p			6	60p, 50p, 30p, 25p				60p, 50p							30p, 25p														
Type Bitrate	MPEG2-TS/UDP	MPEG2-TS/TCP	MPEG2-TS/RTP	RTSP	SRT (FEC Off)	SRT (FEC On)	RTMP	RTMPS	Facebook Live (RTMPS)	YouTube Live (RTMP)	MPEG2-TS/UDP	MPEG2-TS/TCP	MPEG2-TS/RTP	RTSP	SRT	RTMP	MPEG2-TS/UDP	MPEG2-TS/TCP	MPEG2-TS/RTP	RTSP	SRT	RTMP	RTMPS	Facebook Live (RTMPS)	YouTube Live (RTMP)	RTMP	RTMPS	Facebook Live (RTMPS)	YouTube Live (RTMP)	MPEG2-TS/UDP	MPEG2-TS/TCP	MPEG2-TS/RTP	RTSP	SRT	RTMP	RTMPS	Facebook Live (RTMPS)	YouTube Live (RTMP)	MPEG2-TS/UDP	MPEG2-TS/TCP	MPEG2-TS/RTP	RTSP	SRT	RTMP	RTMPS	Facebook Live (RTMPS)	YouTube Live (RTMP)
24Mbps	•																																														
20Mbps	•	•									•						•													•																	
16Mbps	•	•	•								•	•	•				•	•	•											•	•	•															
12Mbps	•	•	•	•	•		•	•	•		•	•	•				•	•	•											•	•	•															
8Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•	•	•	•	•		•	•	•	•	•	•	•		
5Mbps											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
3Mbps											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.5Mbps																																							•	•	•	•	•	•	•	•	•
0.8Mbps																																															
0.3Mbps																																															

Resolution	4	04x 20>	720 720),)	720x480 or 720x576					640x360															
Frame Rate	6	0р,	50p	5	60i, 50i					60p, 50p						30p, 25p									
Туре	RTMP	RTMPS	Facebook Live (RTMPS)	YouTube Live (RTMP)	MPEG2-TS/UDP	MPEG2-TS/TCP	MPEG2-TS/RTP	RTSP	SRT	RTMP	MPEG2-TS/UDP	MPEG2-TS/TCP	MPEG2-TS/RTP	RTSP	SRT	RTMP	MPEG2-TS/UDP	MPEG2-TS/TCP	MPEG2-TS/RTP	RTSP	SRT	RTMP	RTMPS	Facebook Live (RTMPS)	YouTube Live (RTMP)
Bitrate			ü																					122	
24Mbps																									
20Mbps																									
16Mbps																									
12Mbps																									
8Mbps					•	•	•	•																	
5Mbps	•	•	•		•	•	•	•	•	•															
3Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.5Mbps	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0.8Mbps					•	•	•	•	•	•							•	•	•	•	•	•	•	•	•
0.3Mbps					•	•	•	•	•	•							•	•	•	•	•	•	•	•	

Resolution		1	920	(108)	0	1280x720									
Frame Rate		60p,	50p		30p,	25p		60p,	50p		30p	, 25p			
Color depth, Sampling	4:2:2, 10-bit	4:2:0, 8-bit	4:2:2, 10-bit	4:2:0, 8-bit	4:2:0, 8-bit	4:2:0, 8-bit	4:2:2, 10-bit	4:2:0, 8-bit	4:2:2, 10-bit	4:2:0, 8-bit	4:2:0, 8-bit	4:2:0, 8-bit			
Type	MDEG2 TC/IIDD	און במצין אימטן	CRT	=	MPEG2-TS/UDP	SRT	MDEG2 TC/IIDD	אור בעציין איטער	DOT	=	MPEG2-TS/UDP	SRT			
24Mbps	•	_		,	-	0,	_				-	0,			
20Mbps	•														
16Mbps	•	•			•										
12Mbps	•	•			•		•								
8Mbps	•	•	•	•	•	•	•	•	•	•	•	•			
5Mbps		•		•	•	•	•	•	•	•	•	•			
3Mbps		•		•	•	•	•	•	•	•	•	•			
1.5Mbps		•		•	•	•	•	•	•	•	•	•			
0.8Mbps								•		•	•	•			
0.3Mbps															



1" CMOS 4K Image Sensor

The GY-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.





Original image at wide end

20x Optical Zoom



HDR via HLG/J-Log 1

HLG & J-Log 1 Color Gamut



The GY-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 10bit 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%. 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.

[HLG Workflow]

GY-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

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.

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.



Face Only AF: OFF

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



When face detection fails focusing automatically switches to MF while maintaining the focus on the position of the face

Robust Body and Excellent in Weather Resistance

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



Switchable IR Shooting

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 under LED Light

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





Remote Zoom Ease

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

CONNECTED CAM STUDIO

LIVE STREAMING PRODUCTION SUITE

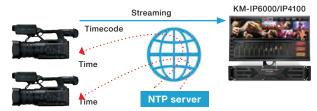
KM-IP6000 (6-input) / KM-IP4100 (4-input)

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



- 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

Basic System Configurations



Controllong 3 cameras with a controller and a mixer.

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

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



Accessories



BN-VC2128

Battery

Battery capacity: 12800mAh, 92Wh Voltage: 7.2V



BN-VC296

Battery

Battery capacity: 9600mAh, 69Wh Voltage: 7.2V



AA-VC20

Battery Charger



KA-EN200G

H.265/HEVC Streaming Adapter



KA-MC100G

SSD Media Adapter

SSD media is not included.



KM-IP4000 KM-IP4100 KM-IP4000S* *for Americas market

Live Streaming
Production Suite

Monitor is not included.



RM-LP250S

IP Remote Control Panel

Joystick version, Control x1 camera recorder



RM-LP250M

IP Remote Control Panel

Encoder version, Control x3 camera recorders



RM-LP100

Remote Camera Controller



BR-DE900

ProHD Decoder



zRAMP-4

(Zixi zRAMP 4-in/4-out)

zRAMP-2 (Zixi zRAMP 2-in/2-out)

Streaming Management Server



QAN0067-003

Microphone for ProHD/4K Camcorder

Specifications

Specifications			
	Power	DC12V (AC adapter), DC7.2V (battery)	
	Power consumption	Approx. 24W (Default setting)	
GENERAL SPECIFICATIONS	Dimensions (W x H x D)	188mm x 227mm x 437mm (with lens hood)	
GENERAL SPECIFICATIONS	Weight	3.6kg (with lens hood and battery, without v	vireless LAN antenna unit)
	Temperature	Operating: 0°C to 40°C, Storage: -20°C to 50	0°C
	Humidity	Operating: 30% to 80%, Storage: Under 85%	%
	Image sensor	1" (effective) CMOS, effective number of pi	xels: approx 9.35 million
	Synchronizing	Internal synchronization	
	Stabilizer	Optical image stabilizer	
	Sensitivity	F11 at 2000lx 89.9% reflectance	
	Lens	F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6	mm (f=28mm to 560mm (35mm equivalent))
CAMERA	Filter diameter	82mm	
	Shutter speed	1/6 (48Hz), 1/7.5 (60Hz) to 1/10000	
	Gain	-6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3d	6) dB, AGC
	ND filter	OFF, 1/4, 1/16, 1/64	
	Viewfinder	0.4" LCOS approx 3.68M pixels Quad VGA (
	LCD monitor	3.97" LCD approx. 1.15M pixels WVGA (800	
	Recording media	SDHC/SDXC memory card x 2	AK (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		SSD (Solid State Drive) Type M.2 SATA	With KA-MC100G (optional)
	Video codec	ProRes 422, MPEG-4 AVC/H.264	
	File format	QuickTime, MP4	
	Audio recording	LPCM 2ch, 48kHz/24-bit/16-bit , µ-Law 2ch	(Web), AAC 2ch (Exchange/MP4), Detail information is shown in Recording Formats chart below.
	Protocol	MPEG2-TS/UDP, MPEG2-TS/TCP, MPEG2-TS	S/RTP, RTSP, SRT, RTMP, RTMPS, Facebook Live (RTMPS), YouTube Live (RTMP)
LIVE VIDEO STREAMING	Resolution and bit rate	>> Refer to "Streaming Format Availability"	chart on page 3 for details.
LIVE VIDEO STREAMING	Return over IP	RTSP/RTP, Icecast (Audio)	
	Audio	AAC 2ch 128Kbps (1.5Mbps over), 64Kbps	(0.8Mbps under)
	Video/Audio output	3G-SDI output (BNC x 1) (up to 1920 x 1080	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 jack	x1
	Headphone	ø3.5mm mini jack x 1	
INTERFACES	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 exp	ansion purposes
PROVIDED ACCESSORIES	Battery (BN-VC296) x 1, AC	adapter, power cable, lens hood, vent hood	

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	
	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
4K UHD	ProRes 422 LT					821/684/410/342/328Mbps		144/173/288/345/359	
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 Care
	(WII EG -4.74/ C/11.204)				4:2:0 6-DIT	70Mbps	LPCIVI ZCN 46KHZ/ IODIT	106	JD Care
	ProRes 422 HQ	1920 x 1080	E0.04 to //	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 SSI
	ProRes 422	1920 X 1060	59.94p/:	oup/24.4/p/25p/23.40p	4:2:2 IU-DIT	293/245/147/122/117Mbps	LPCIVI ZCN 40KHZ/Z4DIT	360/430/710/850/890	116 331
		1920 x 1080		59.94p/50p		70Mbps (422 XHQ)		105	
		1920 X 1060	59.94p/59.94i	/50p/50i/29.97p/25p/23.98p	4:2:2 10-bit	50Mbps (422 XHQ)	LPCM 2ch 48kHz/24bit	145	
HD	QuickTime	1280 x 720		59.94p/50p		SUIVIDPS (422 KHQ)		145	
пр	(MPEG-4.AVC/H.264)	1920 x 1080	59.94p/59.94i	/50p/50i/29.97p/25p/23.98p		50Mbps (XHQ)		147	
		1920 X 1060	59.94i/5	50i/29.97p/25p/23.98p	4:2:08-bit	35Mbps (UHQ)	LPCM 2ch 48kHz/16bit	207	
		1280 x 720		59.94p/50p		35IVIDPS (UPIQ)		207	
	Exchange (U model)	1920 x 1080	F0.04 - // L	el only) / 50p (E/EC model only)	4:2:0 8-bit	12Mbps (LP)	AAC 2ch 48kHz/16bit	580	
	MP4 (E/EC model)	1280 x 720	39.94p (U mode	eroniy) / Sup (E/EC moderoniy)	4:2:0 6-DIT	8Mbps (LP)	AAC ZCN 40KHZ/ IODIT	794	
SD	QuickTime	720 x 480 (U model)	59.94i		4:2:08-bit	8Mbps (HQ)	LPCM 2ch 48kHz/16bit	785	
30	(MPEG-4.AVC/H.264)	720 x 576 (E/EC model)		50i	4.2.0 6-DIL	olvibps (FIQ)	EF CIVI 2CH 40KH2/ 10DH	763	
		1280 x 720		60p/50p		6Mbps (LP)		1040	64GB SD card
14/50	0.117	720 x 480	59.94i			8Mbps (HQ)		760	SD card
WEB (Proxy)	QuickTime (MPEG-4.AVC/H.264)	720 x 576		50i	4:2:0 8-bit	olvibps (FIQ)	μ-law 2ch 16kHz	700	
(i loxy)	(20 1.7 (0)11.20 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	70IVIDPS (XFIQ422)	LPCM 2ch 48kHz/24bit		
			120fps	59.94p/29.97p/23.98p	4.2.2 TO-DIL	50Mbps (XHQ422)	Er Civi 2011 40KH2/24Dit		
High-	QuickTime	1920 x 1080	100fps	100fps 50p/25p		30IVIBPS (APIQ422)		(Deffers by setting)	
Speed	(MPEG-4.AVC/H.264)	1920 X 1060	120fps	59.94p/29.97p/23.98p		FOMIL (VI IO)		(Derrers by setting)	
			100fps 50p/25p		4:2:0 8-bit	50Mbps (XHQ)	LPCM 2ch 48kHz/16bit	la ta	
			120fps	29.97p/23.98p	4:2:0 8-bit	35Mbps (UHQ)	LPCIVI ZCN 48KHZ/16bit		
			100fps	25p					

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