











A New Line of IP-Controlled PTZ Cameras provide Optimal Quality in Streaming and Remote Production over the Internet

Wide angle, NDI[®]|HX, SRT, VITC provide optimal streaming image quality and performance for Remote Production over the Internet.

House of Worship



■ Wide Field of View

Super-wide horizontal angle of view is 80° which is ideal for use in houses of worship, sports, and event venues.

KY-PZ510/N series	3
KY-PZ400N series	4

Supports various protocols

Supports industry standard control protocols such as NDI®, Pelco, and JVC API, as well as SRT for streaming distribution.

KY-PZ510/N series	. 3
KY-PZ400N series	4
KY-PZ200/N series	4

Classrooms



■ SMART Auto Tracking

SMART (Subject Movement And Recognition Tracking) technology enables the camera to recognize and follow a specific person even within a small group in the frame.

KY-PZ510/N Series. 3

Studios



■ 4K60p50p IP Streaming

4K 60p50p output capability for both IP streaming and HDMI, ideal for live productions, sporting events, and broadcasts.

KY-PZ51U/N series	
KY-PZ400N series	(up to 4K30p25p)

■ HDMI output supports YUV 4:2:2 12bit and RGB 4:4:4 8bit.

KY-PZ510/N series3

Sports Venues



■ 30x Power Zoom

■ Multi-Camera Synchronization with VITC and NTP

Synchronization of live video streams is ideal for the mixing and streaming of concerts, shows, and sporting events.

K1-FZ310/N Selles	2
KY-PZ400N series	4
KY-PZ200/N series	4

offices



= HVC

Provides Webcam function via USB connection.

KY-PZ510/N series	3
KY-PZ200/N series	4

Zero Config

Enables automatic camera detection for easy connection and set-up with JVC Live Production and Streaming Systems (KM-IP Series).

KY-PZ400N series	4
KY-PZ200/N series	4

KY-PZ510NW/NB

4K PTZ REMOTE CAMERA KY-PZ510W/B

4K 60p50p H.265/HEVC streaming, NDI® 5, SRT, and advanced auto tracking provides optimal image quality and performance for remote production over the internet.

















KY-PZ510NW

The KY-PZ510N has the NDI® HX3 mode which delivers maximum quality and near zero latency transmission at a reduced bandwidth compared to NDI® High Bandwidth.

KY-PZ510N NDI®HX3 mode						
NDI® HX3 (H.264)			ND	ı® HX3 (H.26	55)	
Resolution	rate	Bitrate	Resolution	rate	Bitrate	
1920x1080	50p	52 Mbps	1920x1080	50p	52 Mbps	
1920x1080	60p	62 Mbps	1920x1080	60p	62 Mbps	

Focal Length is 3.47mm to 41.7mm (21.8 mm to 261.8 mm, 35mm equivalent). Super-wide horizontal angle of view is 80°



which is ideal for use in offices, classrooms, studios, event facilities, sports venues and houses of worship.

■ YUV 4:2:2 12bit

HDMI output supports YUV 4:2:2 12bit and RGB 4:4:4 8bit. *Some switchers may not support the above signals.

You can stream 4K(2160p60) from KY-PZ510/N to YouTube.



Ultra-high resolution 4K60p streaming is ideal for viewing sports and events. Highly efficient H.265/HEVC compression technology also produces similar or

better image quality than H.264 at 50% of the bitrate.

SMART (Subject Movement And Recognition Tracking)

technology enables the camera to recognize and follow a specific person even within a small group in the frame. The target subject can be selected using the included remote control.



KY-PZ510N (Built-in NDI® HX) support NDI®5. **NDI** HX NDI®5 support Reliable UDP (RUDP) transmission protocol. RUDP ensure reliability through retransmission with high-speed communication, such as UDP.

- UVC (USB Video Class)
- Save Setup Files

You can save the menu settings as a setup file on a PC.

■ Multi-Slice Encoding Technology

Multi-slice encoding technology increases performance and efficiency while reducing latency to achieve optimal image quality of live transmissions in 4K60p HEVC mode.

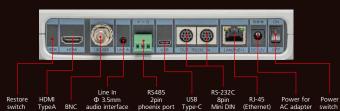




Up to four still images can be recorded internally. This is useful for storing the image from the camera's current location or recalling its previous field of view.

- 2-Color Tally Useful for Studio Shooting





4K PTZ REMOTE CAMERA (NDI®|HX)

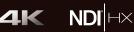
KY-PZ400NW/NB

HD PTZ REMOTE CAMERA (NDI®HX) KY-PZ200NW/NB

HD PTZ REMOTE CAMERA KY-PZ200W/B























The KY-PZ400N is equipped with a 4K 1/2.5" CMOS image sensor with 8.51M effective pixels. The KY-PZ200N/PZ200 is equipped with an HD 1/2.8" CMOS image sensor with 2.07M effective pixels.

Wide horizontal angle is good for use in offices, classrooms, studios, and houses of worship.



KY-PZ200N/KY-PZ200



A performer's technique can be captured clearly, even in a large hall.



Optical Zoom 12x f= 4.4mm - 52.8mm Approx. 26.4mm - 316.8mm (35mm equivalent) Digital zoom: 16x



KY-PZ200N/KY-PZ200

Optical Zoom 20x f= 4.4mm - 88.5mm Approx. 30.2mm - 606.9mm (35mm equivalent) Digital zoom: 16x

For reliable, stable streaming, all models feature various QoS capabilities.



NDI® | HX is a high quality, low latency IP video transmission standard pioneered by NewTek.



SRT advanced streaming uses automatic repeat request (ARQ) and forward error correction (FEC) to prevent packet loss typical for internet connections.

SRT also offers stream encryption for content protection.

Barco ClickShare

KY-PZ200N/KY-PZ200

KY-PZ200/N series and ClickShare Conference system together provide an optimal one-click meeting experience for presenters as well as participants in a variety of remote and in-person collaboration applications.

■ Still Image Capture

Up to four still images can be recorded internally. This is useful for storing the image from the camera's current location or recalling its previous field of view.

In addition to H.264, a video codec widely used in PCs, smartphones, or tablets, H.265 is also supported. Moreover, the dual streaming capability enables workflows such as editing videos with low load using low-resolution substreams and simultaneously generating edited videos with high-resolution mainstreams.

KY-P7400N



A tally LED is available on top of the lens mount. It lights in either red or green depending on the

mode, allowing you to easily check the program status or standby mode even while camera is panning.

KY-PZ200N/KY-PZ200



USB 3.0 with UVC Support

Using an optional USB cable, you can connect the KY-PZ200N/KY-PZ200 directly to a PC and use it as a webcam. This allows for web conferencing and remote lectures with high quality, high magnification images.

Your IP-Controlled HD Video Streaming and Delivery Solution



■ Wide Horizontal Angle of View: 63.7 Powerful Optical Zoom: 30x



Equipped with 30x optical zoom, the KY-PZ100 is capable of capturing distant subjects. Even in a grand hall or auditorium, the speaker's expressions and handwriting on a board will be clearly captured. 12x digital zoom is also available.



Super Fast Pan/Tilt of max. 480°/sec*.

With maximum 480°/sec*. movement offers the scene transition sharply. *In case with AC adapter. 400°/sec. with PoE+.

Super Slow Pan/Tilt of min. 0.1°/sec.

Extremely slow movement of 0.1°/sec. offers a good look at the scene even at high zoom rates.

0.02 Ix of Minimum Illumination for Precise Color Reproduction

In High-Sensitivity mode, minimum illumination is 0.02 lx. Superior color reproduction is ensured even at low light.

The Night Mode is also available for even darker environments (0.003 lx of minimum illumination).





Normal color reproduction

High Sensitivity mode

■ Direct Drive Mechanism for Accurate and Ouiet Pan/Tilt

The KY-PZ100 incorporates JVC's Direct Drive Motor that offers precise, highly responsive pan/tilt and silent movement compare to the normal stepping motor mechanism.

Operating noise of Direct Drive is approx. 20% lower than normal stepping motor system, which is especially suitable for the usage of classic concert, church and so on.

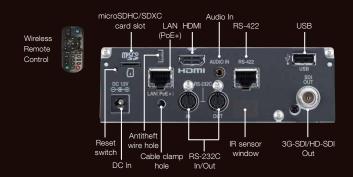


■ High Accuracy of +/-0.03° for Preset Positions

Adjusts to preset positions with high accuracy, offset less than 0.03°. Maintains precise shooting positions even at high magnification with virtually no deviation.

- Simultaneous Output of 3G-SDI and HDMI in addition to IP
- microSDHC/microSDXC Card Recording and File Upload Capability

The KY-PZ100 features a built-in digital recorder that records HD from 5Mbps to 50Mbps directly to microSDHC/microSDXC card. Recordings can be uploaded from the camera to an external server.



Comparison

	KY-PZ510N	KY-PZ510	KY-PZ400N	KY-PZ200N	KY-PZ200	KY-PZ100
Camera						
esolution	3840x216	0 60p50p	3840x2160 30p25p	1920x1080 60p50P		1920x1080 60p50P
Horizontal Angle	80	0°	71°	60	.7°	63.7°
Optical Zoom	12	2x	12x	2	Ox	30x
Unique Feature	Smart Auto Tracking IP Address Display Internal Microphone			Direct Drive Mechanism Recording (microSDHC,SDXC card)		
Network						
IP Steraming	3840x216	0 60p50p	3840x2160 30p25p	1920x1080 60p50P		1920x1080 60p50P
NDI® HX3	NDI® HX3 (KY-	HX3 (KY-PZ510N only)				
NDI®	NDI® 5 (KY-PZ510N built in NDI® HX)		NDI® 4.x (KY-PZ400N built in NDI® HX)	NDI® 4.x (KY-PZ200N built in NDI® HX)		
SRT	Caller/Listene	r/Rendezvous	✓			
UVC	3840x216	i0 30p25p	Caller/L	istener 1920x108	0 30p25p	
Multi-Camera Synchronization	·	/	✓	✓		

Remote Camera Controller

RM-LP100



This advanced controller connects to your network and provides complete IP control of multiple cameras on your network and over the Internet. Touch panel and control lever operation give you total control. Operate up to a hundred cameras from the controller.

- 7" touch-panel LCD for PTZ and CCU functions
- Professional zoom lever for smooth, variable speed zoom control
- Heavy duty control lever for precise pan/tilt control
- Focus dial with push-auto function
- User assignable function keys
- IP control of up to 100 cameras
- Tally Input/Output (D-Sub)





Peripheral devices and Partners





IDS - 4RU Control Panel



Pro Convert Decoder Family (NDI® included)



DENSITRON

V-160HD

Streaming Video Switcher



Live Streaming Production Suite KM-IP6000 KM-IP4100 KM-IP4000/S*

*for Americas market

ProHD



Extron control panels

MVGEMETT_®



BR-DE900

ProHD HD/SD Decoder

Extron_®

Roland

Haivision Makito X4 Haivision Play 2000 4K and HDR Video Decoder

4K Set-Top Box



MGW ACE Decoder

4K HEVC, H.264 & MPEG-2 Decoder

VITEC





ProHD

HAIVISION

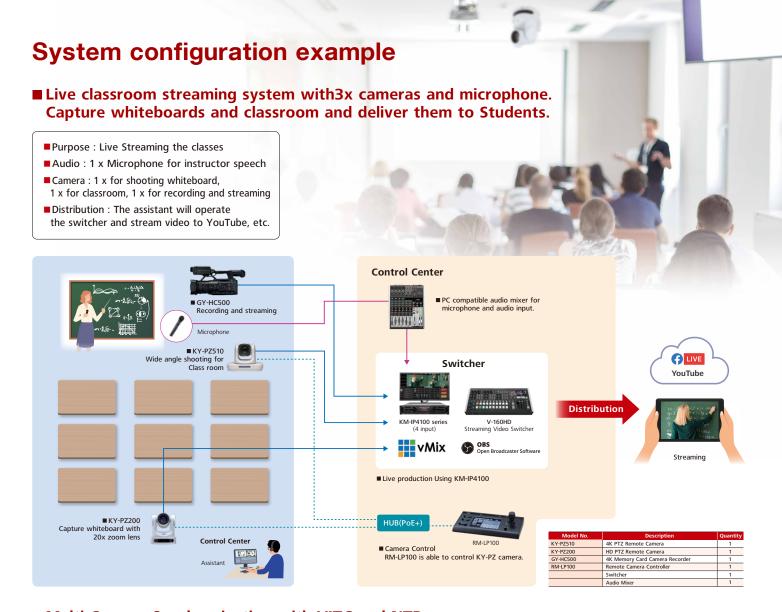








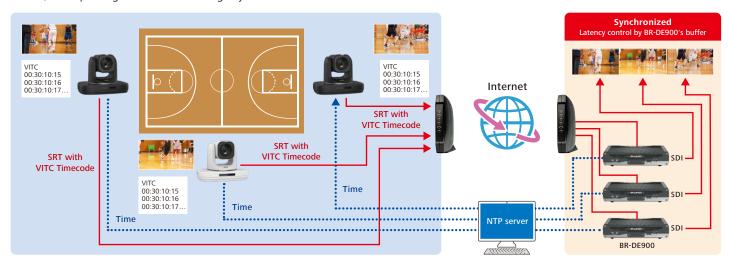




■ Multi-Camera Synchronization with VITC and NTP

KY-PZ510/N, KY-PZ400N, KY-PZ200/N series

Multi-camera synchronization of live video streams is made possible with the VITC (Vertical Interval Time Code) and NTP (Network Time Protocol) used in 1920x1080 60p50p mode. This feature is ideal for the mixing and streaming of concerts, shows, and sporting events where image synchronization is critical.



Command list on JVC web site

- 1) HTTP_CGI_Command support table
- 2) JVC Camcorder Web API Reference
- 3) Standard Command support table

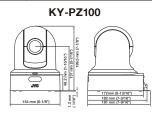
KI-FZ510/PZ400/PZ200 series Standard Command List						
Feature	Command name	Command	Instructions			
Other .	Address Set	88 30 01 FF				
Zoom	Zoom In	8x 01 04 07 02 FF				
Zoom	Zoom Out	8x 01 04 07 03 FF				
Zoom	Zoom In (Fast)	8x 01 04 07 2p FF	p = 0(1ow) - 7(high)			
Zoom	Zoom Out (Fast)	8x 01 04 07 3p FF	p = 0(1ow) - 7(high)			
Zoom	Zoom Stop	8x 01 04 07 00 FF				
Zoom	Zoom Direct	8x 01 04 47 0p 0q 0r 0s FF	pgrs: Zoom Position 0000h-4000h			
Zoom	Zoom Focus Direct	8x 01 04 47 0p 0q 0r 0s 0t 0u 0v 0w FF	pgrs: Zoom Position 0000h-4000h			
20011	200m Focus Direct	ox or o4 41 op od or os ot ou ov ow rr	tuvw: Focus Position 0000h - 143Ch			
Focus		8x 01 04 08 02 FF				
C	Feens Nees	0, 01 04 00 02 00				

General Specification

	KY-PZ510N	KY-PZ510	KY-PZ400N	KY-PZ200N	KY-PZ200	KY-PZ100	
Camera	4001		105: 15:105 (())	4001 1		100: 100: 1	
Sensor	1/2.8 inch CMOS, effective pixels: 8.40M		1/2.5 inch CMOS, effective pixels: 8.51M	1/2.8 inch, CMOS, eff		1/2.8 inch, CMOS, effective pixels: 2.13M	
Lens	F1.8 to F3.7, f = 3.4 to 41.6mm 35mm equivalent (approx.): 21.8 to 261.8mm		F1.8 to F2.6 f=4.4 to 52.8mm 35mm equivalent (approx.): 26.4 to 316.8mm	F1.8 to F2.8 f=4.4mm to 35mm equivalent (appro		F1.6 to F4.7 f=4.3 to 129mm 35mm equivalent (approx.): 30.5 to 915 mm	
Optical Zoom			12x		Ox	30x	
Digital Zoom	16	5x	16x	16	5x	12x	
Minimal Illumination	0.5lx @ (F1.8, AGC O	N)	0.5lx @ (F1	.8, AGC ON)		High sensitive mode ON: 0.02 lx	
Gain	0 dB to 45 dB	_		48 dB		0 dB to 48 dB	
Shutter		[60	Hz] 1/30s ~ 1/10000s [50Hz] 1/25s ~ 1/100	000		1/6(E model) or 1/8(U model) to 1/10000	
White Balance	Horizontal: 80° to 8°		Auto, Indoor, Outdoor, One Push, Manual Horizontal: 71° to 8.2°	Horizontal: 60.7° to 3	260	FAW, AWB, AWB Paint, Indoor, Outdoor, Manual Horizontal: 63.7° to 2.3°	
Angle of View Rotation Range	Horizontal ±162.5 °, \	/ortical =30°to ±90°		Vertical -30°to +90°	0.50	Horizontal ±175 °, Vertical -30°to +90°	
•	PAN: 1.8°/s to 80.5°/s					PAN: 0.1°/s to 480°/s (AC adapter)	
Pan Tilt Speed	TILT: 1.5°/s to 49°/s	-,	PAN: 1.7°7s to 100°7s,	TILT: 1.7°/s to 69.9°/s		TILT: 0.1°/s to 300°/s (AC adapter)	
lmage		H/	V flip, Image freeze, H/V auto inverting funct	ion		H/V flip, Image freeze	
Preset Accuracy			Number of preset: 255, Preset accuracy: 0.1°			Number of presets: 100 Preset accuracy: 0.03°	
nput / Output Interfa		450.50.50					
HDMI Output	TYPE A, Max 3840x2 YUV4:2:2 12bit RG	160 60p50p B4:4:4 8bit	TYPE A, Max 3840x2160 30p25p	TYPE A, Max 1920x10	080 60p50p	TYPE A, Max 1920x1080 60p50p	
3G-SDI Output			G-SDI), Embedded audio Video: SMPTE 424M,		MPTE 299M, Max 1920:	x ¹ 080 60p50p	
Network Interface(LAN)		RJ45: 10BASE-T/100	BASE-TX/1000BASE-T		1 + 2 = 1 4	
	Φ3.5mm mini jack x1		Ф3.5mm mini jac			Φ3.5mm mini jack x1 LINE IN: Balanced Mono / Unbalaced Stereo	
Audio Interface	LINE IN :Unbalanced Internal Microphone	d Stereo	LINE IN : Unba	lanced Stereo balanced Stereo		MIC IN: Balanced Monaural	
	· ·	mode is not supported,		A type for maintenan	re.	MIC IN: Unbalanced stereo plug-in power 2.5V	
USB	UAC UVC 1.1 to 1.5,		A type for maintenance	B type USB3.0 for UV		A Type HOST x 1 for Network Connection	
Communication		RS232 I RS232 OI	N: 8-pin mini DIN, Protocols: Standard/Pelco-D IT: 8-pin mini DIN, Protocols: Use only Standar	/Pelco-P d protocol		RS232 IN: 8-pin mini DIN RS232 OUT: 8-pin mini DIN	
Interface			2-pin Phoenix port Protocols: Standard/Pelco-L			RS422: Serial Control (RJ-45)	
Network			LL 26E/LIEVE LL 264 Motion IDEC			H.264	
Video Compression	Main Stream Res	olution: 640x360 to 38	H.265/HEVC, H.264, MotionJPEG 40x2160 (KY-PZ510/N,KY-PZ400N) 1920x108	0 (KY-P7200/NI) Frame	Rate: 25n to 60n		
Video Stream		Sub Stream	Resolution: 320x240 to 720x480, Frame Rate	25p to 60p	nate. 25p to oop	Main Stream	
TC	VI		VITC		TC	LTC	
Streaming Protocol :Vic	Deo Compression / Pro NDI®IHX3	tocol / Resolution / M	aximum Frame rate / Maximum bit rate	*Streaming quality de		vironment	
	1920x1080 60p50p	(KY-PZ510N only)	NDI® 4.x (KY-PZ400N built in NDI® HX) 1920x1080 60p50p 60Mbps	NDI® 4.x (KY-PZ200 1920x1080 60p50p			
	NDI® 5 (KY-PZ510N	built in NDI® HX)			•		
	3840x2160 60p50p 3840x2160 30p25p	60Mbps	SRT 1920x1080 60p50p 60Mbps with VITC	SRT 1920x1080 60p50p	60Mbps with VITC		
H.265/HEVC	SRT				•		
	3840x2160 60p50p 3840x2160 30p25p		RTSP/RTP 3840x2160 30p25p 60Mbps	RTSP/RTP 1920x1080 60p50p	60Mbps with VITC		
	RTSP/RTP	•			•		
	3840x2160 60p50p 3840x2160 30p25p						
	NDI® HX3		NDI® 4.x (KY-PZ400N built in NDI® HX)	NDI® 4.x (KY-PZ200	N built in NDI®lHX)	RTSP/RTP	
	1920x1080 60p50p		3840x2160 30p25p 60Mbps	1920x1080 60p50p		1920x1080 60p50p	
	NDI® 5 (KY-PZ510N 3840x2160 60p50p		SRT 3840x2160 30p25p 60Mbps with VITC	SRT 1920x1080 60p50p	60Mbps with VITC	RTMP, RTMPS	
	SRT	·	RTSP/RTP	RTSP/RTP	·	1920x1080 60p50p	
H.264	3840x2160 60p50p RTSP/RTP	60Mbps with VITC	3840x2160 30p25p 60Mbps with VITC RTMP, RTMPS	1920x1080 60p50p RTMP, RTMPS	60Mbps with VITC		
	3840x2160 60p50p	60Mbps with VITC	3840x2160 30p25p 60Mbps	1920x1080 60p50p	60Mbps		
	RTMP, RTMPS 3840x2160 60p50p	60Mhns		UVC 1920x1080 30p25p			
	UVC	COMINDES		132001000 300230			
	3840x2160 30p25p						
	RTSP/RTP 1920x1080 60p50p		RTSP/RTP	RTSP/RTP 1920x1080 60p50p	60Mbps		
Motion JPEG	UVC		1920x1080 60p50p	UVC			
Others	3840x2160 30p25p MPEG2-TS/RTP, MPEG	72 TC// IDD		1920x1080 30p25p		MADECO TOURD MADECO TOURTH 75vi	
Remote Protocol	IVIPEGZ-13/KTP, IVIPEG		l -PZ400N,KY-PZ200N), Standard, Pelco, JVC	(M/ER API RM-I P100)		MPEG2 TS/UDP, MPEG2 TS/RTP, Zixi Standard, JVC (WEB API, RM-LP100)	
General		14516(KT 1251014,KT	1240014,K1 1220014), Standard, 1660, 346	(**************************************		Standard, TVC (VVEB 741, NVI El 100)	
LED	Tally in top of lens : 0	Green x1, Red x 1	Tally in top of lens : Green x1, Red x 1	Power: Blue x 1 Stan	dby: Yellow-green x 1	Tally: Red x 1	
	Power in front :Blue		Power: Blue x 1, Standby: Yellow-green x 1		, ,	,	
Power			DE+(IEEE802.3at standard) , KY-PZ400 KY-PZ200/N POE(IEEE802.3af standard) Approx. 0.62A (AC Adapter) Approx. 0.65A (AC Adapter)			DC12V (AC adapter), PoE+ 1.2 A (AC adapter)	
Current consumption	0.95A A (AC adapter) 0.25 A (PoE+)		Approx. 0.18A (PoE) Approx. 0.19A (PoE)		0.4 A (PoE+)		
Temperature	Operating: 0°C ~ 40°C Storage: -40°C ~ 60°C		Operationg: 0°C to 40°C Storage: -20°C to 50°C			Operationg: 0°C to 40°C Storage: -20°C to 50°C	
Upperating: 30% to			Operating: 30% to 80%		Operating: 30% to 80%		
Storage: Under 85%		5.4 x 163.0mm	Storage: U 142mm x 165r	Inder 85%		154mm x 200.7mm x 191mm	
Net Weight		. 2.0 kg	Approx. 1.7kg	Approx. 1.5kg		Approx. 2.0 kg	
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KY-PZ510/N

KY-PZ400N, KY-PZ200/N







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