

# JVC

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



KY-PZ400N

**4K**

**SRT**  
SECURE  
RELIABLE  
TRANSPORT

**H.265/  
HEVC**

**NDI|HX**

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



KY-PZ200N/KY-PZ200

## 4K 1/2.5-inch CMOS Image Sensor

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.



**Powerful Optical Zoom: 12x** KY-PZ400N **20x** KY-PZ200N/PZ200

**Wide Horizontal Angle of View: 71°** KY-PZ400N



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



KY-PZ400N

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



KY-PZ200N/PZ200

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

## Remote Control of Multiple Cameras with RM-LP100

(optional)



By using the JVC RM-LP100 Remote Camera Controller, you can operate up to a hundred KY-PZ400/PZ200 Series cameras over the Internet. A variety of camera functions including PTZ, focus, iris, and menu settings can be controlled. PTZ Remote control capabilities are also made possible through the JVC KM-IP6000/IP4000 Live IP Production Suites or a variety of other options from vMix, OBS Studio and NewTek.

## Quality Streaming with NDI® and SRT

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.

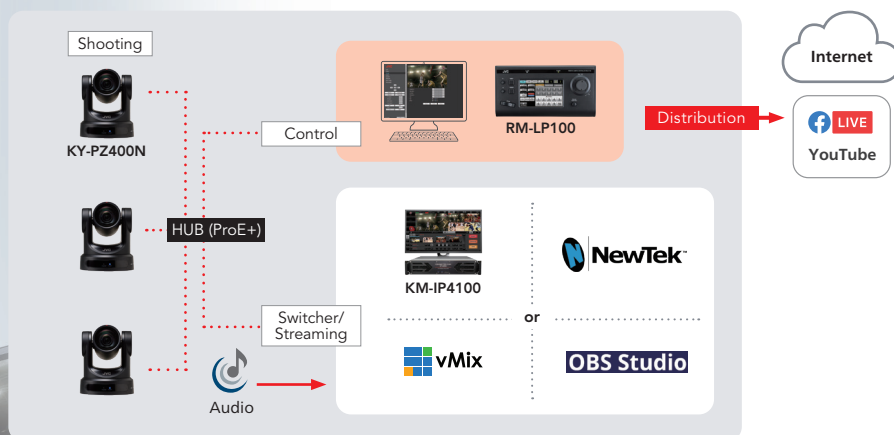


SRT advanced streaming uses automatic repeat request (ARQ) and forward error correction (FEC) to prevent packet loss typical for internet connections. SRT also offers stream encryption for content protection.

## Workflows and Configurations

### On-Site IP Studio System

Installing KY-PZ400N cameras in the studio enables programs to be produced by a small number of people.



| Item |                    | Model                   | Description                     | Qty |
|------|--------------------|-------------------------|---------------------------------|-----|
| 1    | Shooting           | KY-PZ400N               | 4K PTZ Remote Camera            | 3   |
| 2    | Control            | PC for KY-PZ400N        |                                 | 1   |
| 3    |                    | RM-LP100                | Remote Camera Controller        | 1   |
| 4    |                    | KM-IP6000/IP4000 Series | LIVE STREAMING PRODUCTION SUITE |     |
| 5    | Switcher/Streaming | vMix                    |                                 |     |
| 6    |                    | OBS Studio              |                                 |     |
| 7    |                    | Newtek                  |                                 |     |
| 8    | Audio System       |                         |                                 |     |

## H.264/H.265/Motion JPEG and Dual Streaming

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.

### 2-Color Tally Useful for Studio Shooting

KY-PZ400N



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.

### UVC (USB Video Class) Support for Webcam Usage

KY-PZ200N/PZ200

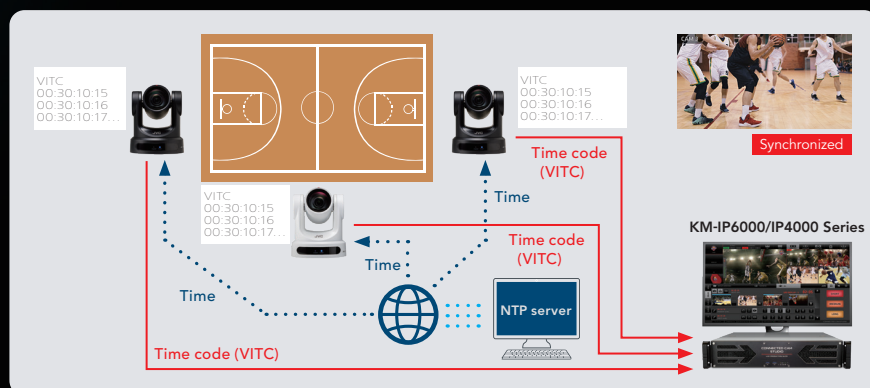


USB 3.0 with UVC Support

Photo shows KY-PZ200N/KY-PZ200.

Using an optional USB cable, you can connect the KY-PZ200N/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.

## Multi-Camera Synchronization with VITC and NTP

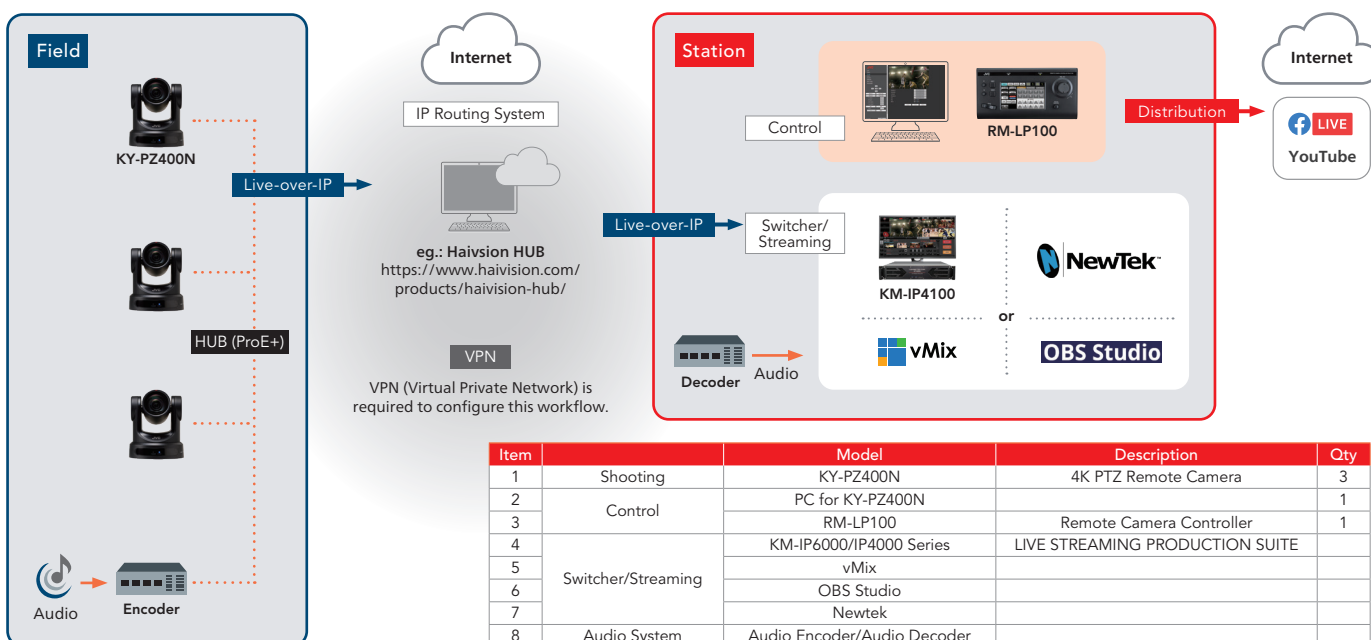


Multi-camera synchronization for live event productions is simply achieved with VITC (Vertical Interval Time Code) and NTP (Network Time Protocol). This feature is ideal for the mixing and streaming of concerts, shows and sporting events where image synchronization is critical.

## REMI

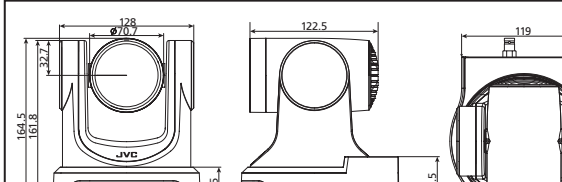
(Remote Production over the Internet)

With the KY-PZ400N series, 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 to transmit broadcast quality video to a remote studio anywhere on the Internet.



| Item |                    | Model                       | Description                     | Qty |
|------|--------------------|-----------------------------|---------------------------------|-----|
| 1    | Shooting           | KY-PZ400N                   | 4K PTZ Remote Camera            | 3   |
| 2    |                    | PC for KY-PZ400N            |                                 | 1   |
| 3    | Control            | RM-LP100                    | Remote Camera Controller        | 1   |
| 4    |                    | KM-IP6000/IP4000 Series     | LIVE STREAMING PRODUCTION SUITE |     |
| 5    | Switcher/Streaming | vMix                        |                                 |     |
| 6    |                    | OBS Studio                  |                                 |     |
| 7    |                    | Newtek                      |                                 |     |
| 8    | Audio System       | Audio Encoder/Audio Decoder |                                 |     |

## Specifications

| Specifications          |                                                     | KY-PZ400N                                                                                                                                                                                                                                                                                                                                                                                                                                 | KY-PZ200N                                                                                                                       | KY-PZ200                                                                                          |  |
|-------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--|
| CAMERA                  | Sensor                                              | 1/2.5-inch Progressive CMOS, effective pixels: 8.51M                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                 | 1/2.8-inch Progressive CMOS, effective pixels: 2.07M                                              |  |
|                         | Lens                                                | Optical Zoom12x, f=4.4mm to 52.8mm, F1.8 to F2.6<br>35mm equivalent (approx.): 26.4mm to 316.8mm                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                 | Optical Zoom 20x, f=4.4mm to 88.5mm, F1.8 to F2.8<br>35mm equivalent (approx.): 30.2mm to 606.9mm |  |
|                         | Digital Zoom                                        | 16x                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                 |                                                                                                   |  |
|                         | Minimal Illumination                                | 0.5lx @ F1.8, AGC ON                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                 |                                                                                                   |  |
|                         | Gain                                                | 0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 42, 45, 48dB                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                 |                                                                                                   |  |
|                         | Shutter                                             | 1/30s to 1/10000s                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                 |                                                                                                   |  |
|                         | White Balance                                       | Auto, Indoor, Outdoor, One push, Manual                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                 |                                                                                                   |  |
|                         | Digital Noise Reduction                             | 3DNR (Digital Noise Reduction) (OFF, 1 to 8, AUTO)                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                 |                                                                                                   |  |
|                         | Horizontal Angle of View                            | 71° to 8.2°                                                                                                                                                                                                                                                                                                                                                                                                                               | 60.7° to 3.36°                                                                                                                  |                                                                                                   |  |
|                         | Vertical Angle of View                              | 42.7° to 4.5°                                                                                                                                                                                                                                                                                                                                                                                                                             | 34.1° to 1.89°                                                                                                                  |                                                                                                   |  |
|                         | Horizontal Rotation Range                           | ±170°                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                 |                                                                                                   |  |
|                         | Vertical Rotation Range                             | -30° to +90°                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                 |                                                                                                   |  |
|                         | Pan Speed Range                                     | 1.7° to 100°/s                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                 |                                                                                                   |  |
|                         | Tilt Speed Range                                    | 1.7° to 69.9°/s                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                 |                                                                                                   |  |
| Image                   | H/V flip, Image freeze, H/V auto inverting function |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                 |                                                                                                   |  |
| Preset                  | Number of preset: 255, Preset accuracy: 0.1°        |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                 |                                                                                                   |  |
| NETWORK                 | Video Compression                                   | H.265/H.264/MJPEG                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                 |                                                                                                   |  |
|                         | Video Stream                                        | Main Stream, Sub Stream                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                 |                                                                                                   |  |
|                         | Main Stream                                         | 3840x2160: 30p, 29.97p, 25p<br>Resolution: 1920x1080, 1280x720, 1024x576, 720x480, 720x408, 640x480, 640x360<br>Frame Rate: 60p, 59.94p, 50p, 30p, 29.97p, 25p                                                                                                                                                                                                                                                                            | Resolution: 1920x1080, 1280x720, 1024x576, 720x480, 720x408, 640x480, 640x360<br>Frame Rate: 60p, 59.94p, 50p, 30p, 29.97p, 25p |                                                                                                   |  |
|                         | Sub Stream                                          | Resolution: 720x480, 720x408, 640x480, 640x360, 480x320, 320x240<br>Frame Rate: 60p, 59.94p, 50p, 30p, 29.97p, 25p                                                                                                                                                                                                                                                                                                                        |                                                                                                                                 |                                                                                                   |  |
|                         | Audio                                               | Audio compression: AAC, Audio bit rate: 96K, 128K                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                 |                                                                                                   |  |
|                         | Supporting Protocols                                | Control: NDI@ HX, Standard, Pelco<br>Streaming: RTSP/RTP, RTMP/RTMPS, SRT, NDI@ HX                                                                                                                                                                                                                                                                                                                                                        | Control: NDI@ HX, Standard, Pelco<br>Streaming: RTSP/RTP, RTMP/RTMPS, SRT, NDI@ HX                                              | Control: Standard, Pelco<br>Streaming: RTSP/RTP, RTMP/RTMPS, SRT                                  |  |
| INPUT/OUTPUT INTERFACES | SRT Mode                                            | Listener, Caller, Rendezvous (Future update)                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                 |                                                                                                   |  |
|                         | HDMI Output Terminal                                | HDMI: Type A<br>Video format: 3840x2160: 30p/29.97p/25p<br>1920x1080: 60p/59.94p/50p/30p/29.97p/25p<br>1920x1080: 60i/59.94i/50i<br>1280x720: 60p/59.94p/50p                                                                                                                                                                                                                                                                              | HDMI: Type A<br>Video format: 1920x1080: 60p/59.94p/50p/30p/29.97p/25p<br>1920x1080: 60i/59.94i/50i<br>1280x720: 60p/59.94p/50p |                                                                                                   |  |
|                         | 3G-SDI Output Terminal                              | BNC type 720p/1080i/1080p: Embedded audio<br>3G-SDI: SMPTE ST424 compliant, HD-SDI: SMPTE ST292 compliant<br>Video format:<br>1920x1080: 60p/59.94p/50p/30p/29.97p/25p<br>1920x1080: 60i/59.94i/50i<br>1280x720: 60p/59.94p/50p                                                                                                                                                                                                           |                                                                                                                                 |                                                                                                   |  |
|                         | Network Interface (LAN)                             | RJ45: 10BASE-T/100BASE-TX/1000BASE-T                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                 |                                                                                                   |  |
|                         | Audio Interface                                     | Line In/Out: Ø3.5mm audio interface                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                 |                                                                                                   |  |
|                         | USB                                                 | USB2.0, A type (for maintenance)                                                                                                                                                                                                                                                                                                                                                                                                          | USB2.0, A type (for maintenance)<br>USB3.0, B type (for UVC)                                                                    |                                                                                                   |  |
|                         | Communication Interface                             | RS232 IN: 8-pin mini DIN, Protocols: Standard/Pelco-D/Pelco-P<br>RS232 OUT: 8-pin mini DIN, Protocols: Use only Standard protocol<br>RS485: 2-pin Phoenix port Protocols: Standard/Pelco-D/Pelco-P                                                                                                                                                                                                                                        |                                                                                                                                 |                                                                                                   |  |
|                         | GENERAL SPECIFICATIONS                              | LED                                                                                                                                                                                                                                                                                                                                                                                                                                       | Tally: Red/Green x 1                                                                                                            | —                                                                                                 |  |
|                         |                                                     | Input Voltage                                                                                                                                                                                                                                                                                                                                                                                                                             | Power: Blue x 1, Standby: Yellow-green x 1<br>DC 12V (AC Adapter), DC 37 to 57V (PoE)                                           |                                                                                                   |  |
|                         |                                                     | PoE Supply                                                                                                                                                                                                                                                                                                                                                                                                                                | 802.3af standard                                                                                                                |                                                                                                   |  |
| Current consumption     |                                                     | Approx. 0.62A (AC Adapter)<br>Approx. 0.18A (PoE)                                                                                                                                                                                                                                                                                                                                                                                         | Approx. 0.65A (AC Adapter)<br>Approx. 0.19A (PoE)                                                                               |                                                                                                   |  |
| Temperature             |                                                     | Operating: 0°C to 40°C, Storage: -20°C to 50°C                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                 |                                                                                                   |  |
| Humidity                |                                                     | Operating: 30% to 80%, Storage: Under 85%                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                 |                                                                                                   |  |
| Dimensions (W x H x D)  |                                                     | 142mm x 165mm x 169mm                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                 |                                                                                                   |  |
| Net Weight              |                                                     | Approx. 1.7kg                                                                                                                                                                                                                                                                                                                                                                                                                             | Approx. 1.5kg                                                                                                                   |                                                                                                   |  |
| Menu Language           |                                                     | English, Chinese, Japanese, German, Spanish, Russian, French, Italian                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                 |                                                                                                   |  |
| Accessories             |                                                     | <div>IR Remote Control</div> <div></div> <div>1) AC Power Adapter<br/>2) Power cable x 1 (Type A for U model),<br/>x 2 (Type C/BF for E model)<br/>3) RS232 cable<br/>4) IR remote control<br/>5) User manual<br/>6) Ceiling bracket<br/>7) Logo sticker x 2</div> |                                                                                                                                 |                                                                                                   |  |

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