

# 4K Professional Box Camera

JX2612 / JX2620



Designed for professional broadcasting, educational training, administrative meetings, and more, these cameras feature a 4K image sensor paired with an ultra-long optical zoom lens. Equipped with a digital array microphone, they effortlessly meet the requirements of various scenes. The cameras have built-in operation buttons, support infrared remote control, and web-based operation.

## Features

### 4K60FPS

Utilizing a 1/2.8-inch, 8.4 million pixels UHD CMOS sensor, it outputs 4K60FPS. It is also backward compatible with various resolutions, including 1080P and 720P.

### 20x Optical Zoom + HD Wide-Angle Lens

JX2620:

Equipped with a full HD telephoto lens, supporting a maximum 20X optical zoom, and a 61.2° horizontal FoV.

### JX2612:

Utilizing a full HD lens, with a maximum 72.8° horizontal FoV and support for 12X optical zoom.

### Built-in Button Controls

The camera has convenient onboard buttons for quick control, eliminating the need for a remote control and facilitating on-site installation and setup.

### Full-Function Webpage

The device features a comprehensive webpage, allowing all configurations and applications to be completed through the web interface, greatly facilitating on-site equipment installation and setup.

### TOF<sup>1</sup>

The camera is equipped with a laser-assisted autofocus system, utilizing advanced autofocus algorithms to achieve rapid and precise automatic focusing.

### Support for 3G-SDI

It supports 3G-SDI outputting video streams at 1080P60 resolution, better meeting the requirements for image clarity and smoothness in professional fields.

### Built-in Microphone

The camera features a built-in microphone array for 360° omnidirectional audio pickup. With noise suppression algorithms, it achieves clear audio pickup with a range of 6 meters.

### Dual Infrared Receivers

The camera is designed with front and rear dual infrared sensors, significantly expanding the infrared reception range and enhancing the remote control experience.

### Multiple Interfaces

It supports HDMI, SDI, USB, and network output, adapting well to diverse application scenarios.

Note:  
1. This feature is optional.

## Product Specification

| Difference     | JX2612         | JX2620        |
|----------------|----------------|---------------|
| Optical Zoom   | 12x            | 20x           |
| Horizontal FOV | 72.8° ~ 6.8°   | 61.2° ~ 3.38° |
| Vertical FOV   | 44.1° ~ 3.8°   | 35.3° ~ 1.90° |
| Focal length   | 4.1mm ~ 49.2mm | 4.7mm ~ 94mm  |
| F No.          | F1.8 ~ F2.68   | F1.6 ~ F3.6   |

### Camera Spec

|                         |                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Signal System           | HDMI: 4KP60, 4KP50, 4KP30, 4KP25, 4KP59.94, 4KP29.97, 1080P60 etc.<br>3G-SDI: 1080P60, 1080P50, 1080P30, 1080P25, 720P60 etc. |
| Sensor                  | 1/2.8-inch, CMOS, Effective Pixels: 8.4 MP                                                                                    |
| Focus Mode              | Auto, One Push, Manual                                                                                                        |
| Minimum Illumination    | 0.5Lux                                                                                                                        |
| Shutter                 | 1/30s ~ 1/10000s                                                                                                              |
| White Balance           | Auto, Indoor, Outdoor, One Push, Manual, VAR                                                                                  |
| Backlight Compensation  | Support                                                                                                                       |
| Digital Noise Reduction | 2D/3D Digital Noise Reduction                                                                                                 |
| SNR                     | ≥ 55dB                                                                                                                        |
| Anti-flicker            | Support                                                                                                                       |
| Image Flip & Freeze     | Support                                                                                                                       |
| PoE                     | Support                                                                                                                       |
| Preset Position         | 255                                                                                                                           |

### Device Operation

|                |                                                                                                                      |
|----------------|----------------------------------------------------------------------------------------------------------------------|
| Body Buttons   | Quantity: 8; Features: zoom operation, brightness adjustment, menu control, image freezing, and focus mode switching |
| Webpage        | Full -Function Webpage                                                                                               |
| Remote Control | 360 ° infrared remote control support                                                                                |

### USB Spec

|                            |                                                                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System Supported | Windows 7 (only supports UVC1.1 features), Windows 8 and above version, Mac OS X, Linux 2.4.6 and above version, Android needs to include the version of UVC-related drivers |
| Color System / Compression | MJPEG / YUY2                                                                                                                                                                 |
| Video Format               | YUY2: Max.1080P30, MJPEG: Max.2160P                                                                                                                                          |
| USB Audio                  | Support                                                                                                                                                                      |
| USB Video Class (UVC)      | UVC 1.1                                                                                                                                                                      |

### Network Spec

|                          |                                                                          |
|--------------------------|--------------------------------------------------------------------------|
| Video Compression        | H.264 / H.265 / MJPEG                                                    |
| Video Stream             | First Stream, Second Stream                                              |
| First Stream Resolution  | 3840x2160, 1920x1080, 1280x720 etc.                                      |
| Second Stream Resolution | 1920x1080, 1280x720, 1024x576 etc.                                       |
| Video Bit Rate           | First Stream: 32Kbps~81920Kbps<br>Second Stream: 32Kbps~6144Kbps         |
| Bit Rate Control         | VBR, CBR                                                                 |
| Frame Rate               | 50Hz: 1fps~50fps, 60Hz:1fps~60fps                                        |
| Audio Compression        | AAC                                                                      |
| Sampling Rate            | 48K                                                                      |
| Audio Bit Rate           | 96Kbps, 128Kbps, 256Kbps                                                 |
| Protocols                | NDI® HX2, SRT, TCP/IP, HTTP, RTSP, RTMP(s), ONVIF, DHCP, Multicast, etc. |

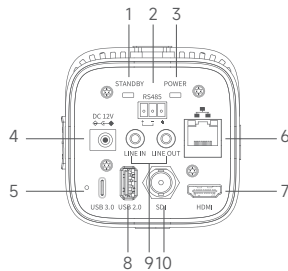
### Input/Output Interface

|                   |                                                                                        |
|-------------------|----------------------------------------------------------------------------------------|
| HD Output         | 1 x HDMI: Version 2.0;<br>1 x 3G-SDI: BNC , 800mVp-p, 75Ω, as per SMPTE 424M standard  |
| Network Interface | 1 x RJ45: 10M/100M/1000M adaptive Ethernet, Support: PoE(802.3af)                      |
| Audio Input       | 1 x Line In, 3.5mm Jack;<br>2 x Microphone input                                       |
| Audio Output      | 1 x Line Out, 3.5mm Jack                                                               |
| USB Interface     | 1 x USB3.0, Type-C<br>1 x USB 2.0 , Type-A(Host)                                       |
| Control Interface | 1 x RS485: 3pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P |
| Power Interface   | JEITA type(DC IN 12V)                                                                  |

### Generic Spec

|                        |                       |
|------------------------|-----------------------|
| Input Voltage          | DC 12V /PoE (802.3af) |
| Input Current          | 1A (Max.)             |
| Operating Temperature  | -10° C ~ 40° C        |
| Storage Temperature    | -40° C ~ 60° C        |
| Dimensions (W x D x H) | 145 x 76 x 78.5mm     |

## Interface Diagram



- 1 — STANDBY

2 — RS485

3 — POWER

4 — DC 12V

5 — USB 3.0 TYPE-C
- 6 — LAN

7 — HDMI

8 — USB2.0 TYPE-A

9 — LINE IN / LINE OUT

10 — 3G-SDI