# JX1801K

## 4K Educational Auto Tracking Box Camera

4K / Lens Optional / PoC+PoE

## ▲▼ Product Features

**● HD EPTZ**
4K Sensor and 4K Lens are provided for HD e-PTZ effect.

**● Intelligent Auto Tracking**
The leading built-in image recognition and tracking algorithms offer smooth tracking without any auxiliary positioning camera or tracking device; various cameras can be mounted for tracking teachers and students.

**● AF Lens**
The 42 ° lens for the teacher's machine supports auto focus; the low-distortion horizontal angle of student's machine is up to 95 °; small lens for big vision. The support for EPTZ enables users to put pictures bigger and see them more clearly in a "stationary for mobile" manner.

**● PoC and PoE Supported**
POC (Power Over Cable) and POE (Power Over Ethernet) ISDN supported; power supply, video, audio and control are integrated.

**● Low Illumination**
The application of 2D and 3D noise reduction algorithm greatly reduces image noise. Even under the condition of ultra-low illumination, it still keep the picture clean and clear, and the SNR of image is as high as 55dB.

**● Dual Interface Output**
The 3G-SDI interface supported offers an effective transmission distance of up to 150m (1080P25). SDI and network outputs are are supported simultaneously.

**● Double Modes Supported**
Single camera and SDI interface can simultaneously output panoramic and close-up images.
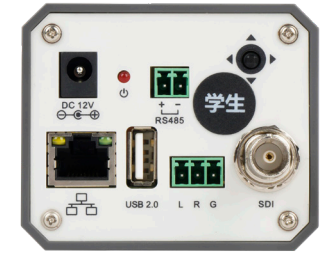
## ▲▼ Product Specifications

### ▌Camera

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|---|---|
| Sensor | 1/2.8 inches, CMOS, Effective Pixels: 8.46 Megapixels |
| Scanning Mode | Progressive |
| Type of Lens Mount | M12 |
| Lens I (Teacher's Camera) | Focal length: f=7.2mm, Horizontal FOV: 42° |
| Lens II (Student's Camera) | Focal length: f=2.8mm, Horizontal FOV: 95° |
| Minimum Illumination | 0.5 Lux @ (F1.8, AGC ON) |
| Shutter | 1/30s ~ 1/10000s |
| White Balance | Auto, Indoor, Outdoor, One Push, Manual, VAR |
| Digital Noise Reduction | 2D, 3D Digital Noise Reduction |
| Backlight Compensation | Support |
| EPTZ | Support |
| Auto Focus | Teacher's machine supported |
| Digital Zoom | 8x |
| PoE+ | Support |
| PoC+ | Support |
| Select lens I/II | Corresponding to the teacher/student tracking mode, respectively |

### ▌Interfaces

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|---|---|
| HD Output | 1x 3G-SDI: BNC , 800mVp-p, 75Ω, as per SMPTE 424M standard, PoC supported |
| Network Interface | 1x RJ45: 10M/100M adaptive Ethernet，PoE support |
| USB Interface | 1x USB2.0: A type socket |
| Audio Interface | 1x LINE IN: 3-core phoenix interface |
| Control Interface | 1x RS485: 2-core phoenix interface，Max. distance 1200m, VISCA/Pelco-D/Pelco-P protocols |
| Power Interface | DC005 type (DC12V) |

### ▌General Specifications

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|---|---|
| Input Voltage | DC 12V/PoE (802.3af) |
| Input Current | 0.5A (Max.) |
| Operating Temperature | -10° C ~ 40° C |
| Storage Temperature | -40° C ~ 60°C |
| Power Consumption | 6W (Max.) |
| Dimension | 72mm x 60mm x 130mm |
| Net Weight | 0.4Kg |

### ▌Network Features

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|---|---|
| Video Compression | H.264 / MJPEG / H.265 |
| Video Stream | First Stream, Second Stream Third Stream,Fourth Stream |
| First Stream Resolution | 1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360, 320x240, 320x180 |
| Second Stream Resolution | 3840x2160, 1920x1080, 1920x1080, 1280x720, 1024x576, 720x576(50Hz), 720x480(60Hz), 720x408, 640x360, 480x270 |
| Third Stream Resolution | 1920X1080, 1280X720, 1024x576, 960x540, 720x576(50Hz), 720x480(60Hz), 720x408, 640x360, 480x270, 320x240, 320x180 |
| Fourth Stream Resolution | 1024x576, 960x540, 720x576(50Hz), 720x480(60Hz), 720x408, 640x360, 480x270, 320x240, 320x180 |
| Video Bit Rate | 32Kbps ~ 16384Kbps |
| Bit Rate Control | VBR, CBR |
| Maximum Frame Rate | 50Hz: 1fps ~ 25fps, 60Hz: 1fps ~ 30fps |
| Audio Compression | AAC, G711A |
| Audio Bit Rate | 96Kbps, 128Kbps, 256Kbps |
| Protocols | TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, GB/T 28181, Multicast, etc. |