# USB PTZ Cameras

## 4K Video Conferencing PTZ Camera  UAI4VX71UVS / UAI4VX70UVB /UAI4 VX71UVB

**4K UHD** ULTRA HD | **Dual Stream** | **PoE** | **UVC** | **Multiple Interfaces**

4K USB PTZ Camera, multiple interfaces, support USB3.0, PoE, plug and play, budget friendly solution for medium-size and large conference room.

VX71UVS    VX70UVB    VX71UVB

## Features

### ▼ 4K UHD
VX71UVS / VX71UVB:
Use a high -quality 1/2.5 inches UHD CMOS sensor with 8.51 million pixels.
VX70UVB：
Use a high -quality 1/1.8 inches UHD CMOS sensor with 8.42 million pixels.
Support max 4K30fps image output and multiple lower resolutions like 1080p/720p.

### ▼ Optical Zoom + Wide -angle Lens
VX71UVS:
4K optical lens, support max 12× optical zoom and 71 ° horizontal field of view, infrared filter can be switched automatically.
VX70UVB:
4K optical lens, support max 20× optical zoom and 60° horizontal field of view, Support the night vision mode, infrared filter can be switched automatically.
VX71UVB:
4K optical lens, support max 12× optical zoom and 80.8° horizontal field of view, infrared filter can be switched automatically. Support 16X digital zoom.

### ▼ Remote Control
Support multiple ways of control, like RS232, RS485(Optional), Network and USB.

### ▼ PoE
The cable network supports POE power supply, control, power supply, video, audio only requires one network cable.

### ▼ H.264
The output H.264 stream supports Slice and SVC encoding mode to adapt to high -end USB conference video applications.

### ▼ Dual-streaming
Support dual-streaming simultaneously (YUY2, MJPEG and H.264).

### ▼ Low Illumination
The new generation high performance CMOS image sensor can significantly reduce the image noise in low illumination. With the 2D and 3D noise reduction algorithms, even in an ultra-low illumination environment,camera can still deliver a sharp and clean image with more than 55dB S/N ratio.

### ▼ Multiple Interfaces
Support HDMI, USB3.0, and network interfaces to output 4K videos at the same time.

Remark:
1.This function is optional.

## Product Specification

### ▼ Difference

| | VX71UVS | VX71UVB | VX70UVB |
|---|---|---|---|
| Sensor | Megapixels | 1/2.5 inches, CMOS, Effective Pixels:8.51 Megapixels | 1/1.8 inches, CMOS, Effective Pixels:8.42 |
| Lens | 12x, f4.4mm~52.8mm, F1.8~F2.62 | | 0x, f=6.25mm~125mm, F1.58~F3.95 |
| Horizontal FOV | 71° ~ 8.2° | 80.8° ~ 7.5° | 60° ~ 3.5° |
| Vertical FOV | 42.7° ~ 4.5° | 49.9° ~ 4.3° | 35.7° ~ 2.0° |
| Video Format | YUY2: Max. 1080P30；MJPEG: Max. 2160P30；H.264 AVC: Max. 2160P30；Only VX71UVS Support H.264 SVC: Max. 2160P30 | | |
| Dimension | 144mm(W) x 144mm (D) x 173.4mm (H) | 144mm (W) x 144mm (D) x 167.9mm (H) | 144mm (W) x 144mm (D) x 168.3mm (H) |

### ▼ Camera Spec

| | |
|---|---|
| Signal System | 4KP30, 4KP25，1080P30, 1080P25 |
| Scanning Mode | Progressive |
| Digital Zoom | 16x |
| Minimum Illumination | 0.5Lux @ (F1.8, AGC ON) |
| 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 |
| Pan Angle | ±170° |
| Tilt Angle | -30° ~ +90° |
| Pan Speed | 2.7° ~ 35.7°/s |
| Tilt Speed | 2.7° ~ 31.5°/s |
| Image Flip | Support |
| Preset Position | 255 |
| Preset Accuracy | 0.1° |

### ▼ I/O

| | |
|---|---|
| USB Interfaces | 1 x USB 3.0: Type-C |
| HD Output | 1 x HDMI 1.4b1 |
| Network Interface | 1 x RJ45: 10M / 100M /1000M adaptive Ethernet; |
| Audio Interface | 1 x LINE In: 3.5mm Jack |
| Control Interface | 1 x RS485 IN(Optional): 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P 1 x RS232 IN: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P |
| Power Interface | JEITA type （DC IN 12V) |

### ▼ Network Spec

| | |
|---|---|
| Video Compression | H.264 / MJEPG |
| Video Stream | First Stream, Second Stream |
| First Stream Resolution | 3840x2160,1920x1080,1280x720 etc. |
| Second Stream Resolution | 1920x1080,1280x720,1024x576 etc. |
| Video Bit Rate | 32kbps~20480kbps |
| Bit Rate Control | VBR, CBR |
| Frame Rate | 50Hz: 1fps ~ 25fps, 60Hz: 1fps ~ 30fps |
| Audio Compression | AAC |
| Audio Bit Rate | 96Kbps, 128Kbps, 256Kbps |
| Protocols | TCP/IP,HTTP,RTSP,RTMP/RTMPS, Onvif, DHCP,SRT,GB/T 28181, Multicast, etc. |

### ▼ USB Spec

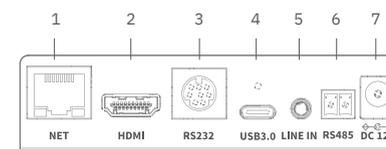| | |
|---|---|
| Operating System Supported | Windows 7 (only supports UVC1.1 features), Windows 8 and above version, MacOS 10.5 and above version, Linux 2.4.6 and above version, Android needs to include the version of UVC- related drivers |
| Color System / Compression | YUY2 / MJPEG / H.264 |
| USB Video | Support |
| USB Video Communication Protocol | UVC 1.1~1.5 |
| UVC PTZ Control | Support |

### ▼ Generic Spec

| | |
|---|---|
| Input Voltage | DC 12V / PoE （802.3af） Input |
| Current | 12V 1.0A (Max.) |
| Operating Temperature | -10℃ ~ 40℃ |
| Storage Temperature | -40℃ ~ 60℃ |
| Power Consumption | 12W (Max.) |
| Net Weight | 1.41kg |

## Interface Diagram

1 2 3 4 5 6 7

NET  HDMI  RS232  USB3.0  LINE IN  RS485  DC 12V

| 1 —— NET | 5 —— LINE |
|---|---|
| 2 —— HDMI | 6 —— IN |
| 3 —— RS232 | 7 —— RS485 |
| 4 —— USB3.0 | DC 12V |

47