

VX61BASL

4K60P Professional PTZ Camera

4K60P / NDI®|HX2 / 12x Optical Zoom



Product Features

● 4K60P

Using 1/2.5-inch high-quality UHD CMOS sensor with a maximum of 8.51 million pixels can realize 4K (3840x2160) ultra-high-resolution high-quality images. And downward compatible with 1080p, 720p and other resolutions.

● 12x Optical Zoom + 80.8° Wide-angle Lens

It adopts 4K ultra long focal lens with high quality and 8 million ultra-high resolution, 12x optical zoom, and the maximum field angle is 80.8°.

● Electro Mechanical PTZ

Built-in self-developed electro mechanical PTZ, the horizontal rotation range can reach $\pm 170^\circ$, the rotation speed range is 1.7°~100°/s; the vertical rotation range can reach -30°~90°, and the rotation speed range is 1.7°~69.9°/s.

● Multiple Interfaces

Support HDMI and 3G-SDI interface, effective transmission distance of 3G-SDI is up to 150 meters (1080P30). HDMI or 3G-SDI, USB, LAN can output three HD digital signals at the same time.

● Uncompressed video output

With HDMI2.0 and 3G-SDI interface, it can directly output uncompressed digital video.

● Remote Control

Support variety of control methods, you can use RS232, RS485, network and USB to control the camera.

● Low Illumination

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

● AI Tracking

With the help of the AI computing power of the chip, the camera is equipped with advanced AI algorithms to realize monocular humanoid tracking, which can realize automatic tracking of scenes such as education, conferences and live broadcasts.

● NDI®|HX2¹

NDI®|HX2 has the characteristics of low latency and plug and play and easy to be implemented and deployed. It has good ecology and supports the simultaneous transmission of audio, video and control commands. It is a new generation of network video transmission mode.

● Gravity Sensor¹

It supports automatic image flipping function, which is convenient for installation and use.

Remark:

1. This function is optional.
2. Device mode is not supported, but will be supported after firmware updates.

Product Specifications

Main Features

| | |
|---------------------------|--|
| Uncompressed Video Output | HDMI:4K60P, 4K59.94P, 4K50P, 4K30P, 4K29.97P, 4K25P, 1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080I60, 1080I59.94, 1080I50, 720P60, 720P59.94; 3G-SDI:1080P60,1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080I60, 1080I59.94, 1080I50; 720P60, 720P59.94; |
| Sensor | 1/2.5 inches, CMOS, Effective Pixels: 8.51 Megapixels |
| Scanning Mode | Progressive |
| Focal length | 12x, f = 3.47mm ~41.65mm, F 1.84 ~ F 3.72 |
| Digital Zoom | 16x(Max.) |
| Minimum Illumination | 0.5 Lux @ (F1.8, AGC ON) |
| Shutter | 1/30s ~ 1/10000s |
| White Balance | Auto, Indoor, Outdoor, One Push, Manual, VAR |
| Backlight Compensation | Support |
| Digital Noise Reduction | 3D Digital Noise Reduction |
| SNR | ≥ 55dB |
| Horizontal FOV | 80.8° ~ 7.5° |
| Vertical FOV | 49.9° ~ 4.3° |
| Pan Angle | ±170° |
| Tilt Angle | -30° ~ +90° |
| Pan Speed | 1.7° ~ 100° /s |
| Tilt Speed | 1.7° ~ 69.9° /s |
| Image Flip | Support |
| Image Freeze | Support |
| PoE+ | Support |
| Preset Position | 255 |
| Preset Accuracy | 0.1° |

Interfaces

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|-------------------|---|
| HD Output | 1x HDMI: Version 2.0; 1x 3G-SDI: BNC, 800mVp-p, 75Ω, as per SMPTE 424M standard |
| Network Interface | 1x RJ45: 10M/100M/1000M adaptive Ethernet |
| Audio Interface | 1x Line In: 3.5mm Jack; 1x Line Out: 3.5mm Jack; |
| USB Interface | 1x USB2.0, Type-A (Support Host or Device mode) ² |

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|-------------------|--|
| Control Interface | 1 x RS485: 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; 1 x RS232 OUT: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA only |
| Power Interface | JEITA type (DC IN 12V) |

Network Features

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|--------------------------|--|
| Video Compression | H.265 / H.264 / MJPEG |
| Video Stream | First Stream, Second Stream |
| First Stream Resolution | 3840x2160, 1920x1080, 1280x720, 1024x576 etc. |
| Second Stream Resolution | 720x480, 320x240 etc. |
| Video Bit Rate | First Stream: 32kbps~51200kbps Second Stream: 32kbps~20480kbps |
| Bit Rate Control | VBR, CBR |
| Frame Rate | 50Hz: 1fps~50fps, 60Hz: 1fps~60fps |
| Audio Compression | AAC |
| Audio Bit Rate | 96Kbps, 128Kbps |
| Protocols | NDI® HX2, SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, Multicast, etc. |

USB Features

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|----------------------------------|--|
| Operating System Supported | Windows 7, Windows 8, windows 10, windows 11, MacOS 11.6.6 or higher versions, Ubuntu 18.04.4 lts or higher versions, Android 8.0.0 or higher versions |
| Color System / Compression | YUY2 H.265 / H.264 / MJPEG |
| Video Format | YUY2 :Max.1080P5; H.264 : Max.2160P30; H.265 HEVC: Max.2160P30; MJPEG: Max.2160P30 |
| USB Audio | Support |
| USB video Communication Protocol | UVC 1.1~1.5 |
| UVC PTZ Control | Support |

General Specifications

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|-----------------------|-----------------------|
| Input Voltage | DC 12V/PoE+(802.3at) |
| Input current | 2A (Max.) |
| Operating Temperature | 0 ~ 40° C |
| Storage Temperature | -40 ~ 60° C |
| Power Consumption | 18W (Max.) |
| Dimension | 169mm x 142mm x 175mm |
| Net Weight | 1.5Kg |