Zowietek

1080P Professional PTZ Camera With AI Technology

1080P / 30x Optical Zoom / HDMI+SDI+LAN+USB

▲ Product Features

● 1080P Full HD
Equipped with 1/2.8", 2.07 million effective pixels high quality HD CMOS sensor, can reach maximum 1920 x 1080 high resolution and achieve quality image.

● New Generation of ISP Image Processing Algorithm
The new generation of ISP image processing algorithm provides more complete white balance and automatic exposure functions, which significantly improves the image output performance of the camera, and the imaging effect is also better. Widely used in education recording and broadcasting, distance education, video conferencing, live broadcasting, broadcasting and other industries.

● Upgraded AI Technology
Using upgraded AI technology, through face recognition, it can accurately determine the location of people, realize automatic tracking and automatic frame selection.

● 1080P60 NDI®|HB ²
It supports 1080P60 NDI®|HB technology, which brings us ultra-low latency high-quality audio and video signal transmission, which can achieve unparalleled ultra-high-resolution image quality and lossless effects that are closer to vision.

● AAC Audio Encoding
Support AAC audio encoding, better sound quality and smaller bandwidth.

● Leading Auto Focus Technology
Using advanced focusing algorithm, the lens can focus quickly, accurately and stably.

● 60° Wide-angle Lens + 30x Optical Zoom
Use 60 ° wide-angle high quality lens, support 20x optical zoom.

● Exclusive Audio Processing Algorithm
The exclusive audio processing algorithm can eliminate reverberation, effectively reduce environmental noise, and support EQ adjustment to optimize sound effects; the device supports dual mic pickup, and can also be connected to external microphones, wireless bees, etc., to meet the pickup needs of most scenarios.

● 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.

● Mitiple Interfaces
Support HDMI output, 3G-SDI interface, effective transmission distance up to 150 meters (1080p30). HDMI, SDI, Network USB can output at the same time.

● Remote Control
Through the RS232 and RS485 serial ports and USB, the camera can be controlled remotely.

Remark:
1. This function is optional.
2. This function is optional, and you need to pay extra to enable this function.

▲ Product Specifications

▌ Camera

Signal System	1080p/60，1080p/59.94，1080p/50，1080i/60，1080i/59.94，1080i/50，1080p/30，1080p/29.97，1080p/25，720p/60，720p/59.94，720p/50
Sensor	1/2.8 inches, CMOS, Effective Pixels: 2.07 Megapixels
Scanning Mode	Progressive
Focal length	30x, f4.42mm ~ 132.6mm, F1.8 ~ F2.8
Minimum Illumination	0.5 Lux @ (F2.0, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, One Push, Manual, VAR
Backlight Compensation	Support
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	≥ 55dB
Horizontal FOV	60.7° ~ 2.28°
Vertical FOV	34.1° ~ 1.28°
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
Preset Position	255
Preset Accuracy	0.1°

▌ USB Features

Operating System Supported	Windows® 7 (only 1080P and below supported), Windows 8.1, Windows 10 or higher macOS ™ 10.10 or higher Google ™ Chromebook ™ Version 29.0.1547.70 or higher Linux (support UVC)
Hardware Requirements	2.4 GHz Intel® Core 2 Duo CPU or higher 2 GB RAM or more USB 2.0 interface
Color System / Compression	YUY2 / H.264 / MJPEG
Signal System	Support variety of video formats with different frame rates and resolutions, up to 1080p/60 YUY2 output.
USB Video Communication Protocol	UVC 1.1 or UVC1.5
USB Audio	32K Sampling Rate，Support UAC2.0
UVC PTZ Control	Support

▌ Audio

Microphone Array	Built-in dual microphones, 100Hz to 16KHz frequency response.
Analog Audio	Support 3.5mm Line-In; Support 3.5mm Line-Out
Audio Output	Support HDMI, USB, LAN, SDI etc

▌ Network Features

Video Compression	H.264 / H.265
Video Stream	First Stream, Second Stream
First Stream Resolution	1920x1080, 1280x720, 1024x576 etc.
Second Stream Resolution	1280x720,1024x576,720x576 etc.
Video Bit Rate	32Kbps ~ 102400Kbps
Bit Rate Control	VBR, CBR
Frame Rate	1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Protocols	NDI®|HB, NDI®|HX2, TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast,SRT, GB/T 28181etc.

▌ Interfaces

USB Interface	1 x USB3.0,Type-A
HD Output	1x HDMI: Version 1.3; 1x 3G-SDI: BNC , 800mVp-p, 75Ω, as per SMPTE 424M standard
Network Interface	1x RJ45: 10M/100M/1000M adaptive Ethernet,Support PoE
Audio Interface	Built-in dual microphones 1 x Line In, 3.5mm Jack 1 x Line Out, 3.5mm Jack
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)

▌ General Specifications

Input Voltage	DC 12V/PoE （802.3af) ¹
Input current	1.0A (Max.)
Operating Temperature	0 ~ 40° C (0~104 ℉)
Storage Temperature	-40 ~ 60℃ (-104~40 ℉)
Power Consumption	12W (Max.)
Dimension	169 x 142 x 164mm (6.65" * 5.59" * 6.46")
Net Weight	1.35Kg (2.97lb, 47.6oz)