



4K ULTRA HD CAMERA

4K / HDMI+IP+USB / 12X



AY-VC201

Features

- **Full-Featured USB**
Compatible with USB3.0 & USB2.0. supports audio, encoding output, UVC 1.1~1.5 protocols
- **4K Utra HD**
Sony 1/1.8" UHD CMOS sensor 8.51 million pixels,resolution 4K (3840x2160)
- **HDMI 1.4b (optional)**
Support HDMI 1.4, can directly output uncompressed 4K original video
- **71° wide-angle lens + 12x optical zoom**
Real 8 million ultra-high resolution 4K lens, 12x optical zoom,and 16x digital zoom, horizontal FOV 71°
- **Low illumination**
Image noise reduce CMOS sensor in low illumination conditions, 2D and 3D noise reduction algorithms, Image signal-to-noise ratio is above 55dB
- **Support POE**
Support POE (Power Over Ethernet),to control, supply power, video & audio transmission through a network cable
- **Remote control**
Multi way of control, using RS232 (RS485 optional) serial ports,internet and USB to control the camera
- **H.264 Slice/ H.264 SVC encoding support**
Output H.264 stream supports Slice and SVC encoding modes, suitable for USB video conference
- **Dual stream**
Supports two-channel code stream output(any two of YUY2、 MJPEG、 H.264) to reduce the pressure of host encoding and decoding



4K 30fps



12x Optical zoom



Full-Featured USB



Support POE



remote control



Dual stream



Support HDMI 1.4 b



Low illumination



16x Digital zoom



Rich interface



PTZ Camera



3 ways of power supply



- **Rich and complete interface**
Support HDMI, USB3.0,RS232,RS485,4K video can be output at the same time
- **3 ways of power supply**
Support USB 5V power supply, 12V Adapter and PoE power supply

Product Specification

Camera

Video resolution	HDMI(optional):4KP30fps, 4KP29.97fps, 4KP25,1080P30,1080P29.29,1080P25
Sensor	1/1.8", CMOS, Effective Pixel: 8.5 M
Scanning Mode	Progressive Scan
Lens	12x, f4.4mm ~ 52.8mm, F1.8 ~ F2.6
Digital Zoom	16x
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Automatic, indoor, outdoor, one-button, manual, specified color temperature
Backlight Compensation Support	
Digital Noise Reduction	2D&3D Digital Noise Reduction
Signal-to-noise ratio	≥55dB
Horizontal Angle of View	60° ~ 3.5°
Vertical Angle of View	35.7° ~2.0°
Horizontal Rotation Range	±170°
Vertical rotation range	-30° ~ +90°
Pan Speed Range	1.7° ~ 100°/s
Tilt Speed Range	1.7° ~ 69.9°/s
H & V Flip	Support
Image Freeze	Support
PoE power supply	Support
Humanoid tracking	Support (optional)
Number of Preset	255
Preset Accuracy	0.1°
Support operating system	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color space/ compression	YUY2 / MJPEG / H.264 / H.265
Video format	YUY2: up to 1080p/30;



USB features

H.264 AVC: up to 2160p/60;
H.264 SVC: up to 2160p/60;
MJPEG: up to 2160p/30;
H.265: up to 2160/60;

USB audio Support
USB video communication protocol UVC 1.1~1.5
UVC PTZ control Support

Network characteristics

Video coding standard H.264 / H.265 / MJPEG
Video stream The first stream, the second stream
Resolution of the first stream 3840x2160, 1920x1080,1280x720, 1024x576
Resolution of the second stream 1920x1080,1280x720, 720x576, 720x480, 320x240
Video bitrate 32kbps ~ 102400kbps
Rate control Variable bit rate, fixed bit rate
frequency 50Hz: 1fps ~ 50fps,60Hz:1fps~60fps
Audio compression standard AAC、 G711A
Audio bit rate 96Kbps, 128Kbps, 256Kbps
supporting agreement TCP/IP, HTTP, RTSP, RTMP/RTMPS, Onvif, DHCP, SRT, GB/T28181, multicast, etc.
HD output 1 channel, HDMI: version 2.0;

INPUT/OUTPUT INTERFACE

Network Interface 1 channel, RJ45: 10M/100M/1000M adaptive Ethernet; support PoE power supply;
audio port 1 channel, 3.5mm, Audio In; 1 way, Line Out;
USB interface 1 way, Type-C socket, can output up to 4K@60fps compressed video and 1080P original video;
Communication Interface 1 channel, RS232 In: 8-pin small DIN, maximum distance 30 meters, VISCA/Pelco-D/Pelco-P protocol;
1 channel, RS232 Out: 8-pin small DIN, maximum distance 30 meters, VISCA protocol networking;
1 channel, RS485: 2-pin Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol;
Power connector JEITA type (DC IN 12V)



GENERIC SPECIFICATION

Input voltage	DC 12V/PoE (802.3af)
Input Current	1.0A (max)
Operating temperature	-10 ~ 40°C
Stored temperature	-40 ~ 60°C
Power consumption	12W (max)
size	169mm x 142mm x 164mm
weight	1.35Kg

