



Functional description:

1. The high-definition electronic pan-tilt unit is equipped with a 4K sensor and 4K lens to achieve high-definition electronic pan-tilt performance.
2. Built-in leading image recognition and tracking algorithms enable smooth, natural tracking effects without requiring any auxiliary positioning cameras or tracking hosts. Pre-installing different cameras allows for teacher tracking.
3. The new CMOS image sensor with ultra-high signal-to-noise ratio effectively reduces image noise in low-light conditions. By applying both 2D and 3D noise reduction algorithms, it significantly minimizes image noise, maintaining clean and clear footage even < ultra-low illumination conditions. The image signal-to-noise ratio exceeds 55dB.

Technical specifications:

Sensor Type	1/2.8- inch CMOS, 8.46MP effective pixels
Scanning Mode	Progressive
Lens Mount	M12
Focal Length (Teacher Camera)	f = 7.2 mm
Horizontal Field of View	42°
Auto Focus	Supported
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)
Electronic Shutter	1/30 s ~ 1/10000 s
White Balance	Auto / Indoor / Outdoor / One- Push / Manual / Custom Color Temperature
Digital Noise Reduction	2D, 3D
Backlight Compensation	Supported
EPTZ	Supported
Digital Zoom	8x
PoE	Supported
Local Storage	Supported
Teaching Auto- Tracking	Teacher Mode
Encoding Protocol	H.264 / H.265 / MJPEG
Video Stream	Primary stream, Secondary stream
Primary Stream Resolution	1920×1080, 1280×720, 1024×576, 960×540, 640×480, 640×360, 320×240, 320×180
Secondary Stream Resolution	3840×2160, 1920×1080, 1280×720, 1024×576, 720×576 (50Hz), 720×480 (60Hz), 720×408, 640×360, 480×270, 320×240, 320×180
Video Bitrate	32 Kbps ~ 16384 Kbps
Bitrate Control	VBR / CBR
Frame Rate	1 fps ~ 25 fps
Audio Compression	AAC / G711A
Audio Bitrate	96 Kbps, 128 Kbps
Supported Protocols	TCP/IP, HTTP, RTSP, RTMP, ONVIF, DHCP, etc.
Network Interface	1× RJ45 (10/100 Mbps), PoE supported
HD Output	1× SDI (BNC, 800 mVp- p, 75 Ω, SMPTE 424M), PoC supported
Audio Interface	1× Line In (3- pin Phoenix)
USB Interface	1× USB 2.0 (Type- A)
Control Interface	1× RS485 (2- pin Phoenix, max 1200 m, VISCA/Pelco- D/Pelco- P)
Power Interface	DC005 (DC 12V)
Input Voltage	DC 12V / PoC / PoE (IEEE 802.3af)
Input Current	0.5 A (max)
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	6 W (max)
Dimensions	72mm × 60 mm × 128 mm (excl. bracket & protrusions)
Weight	0.37 kg