

Dual Lens 4K Auto Tracking PTZ Camera

Designed for executive-level meetings, educational recordings, and more, it built-in 4K dual lenses for clear images. Equipped with AI auto-framing, voice tracking, and intelligent switching algorithms, it accurately captures scenes without manual intervention, seamlessly transitioning between panoramic and close-up views to meet diverse requirements.



Dual Lens 4K 30fps AI Tracking Voice Tracking Auto Framing 12X Optical Zoom Built-in Mic POE+

Key Features

- Integrated Design**
 The unit adopts a panoramic and close-up dual-lens design, simultaneously outputting multiple streams of panoramic and close-up video, capturing more details during interactive teaching processes.
- 4K Ultra-Clear Quality**
 Both the panoramic and close-up lenses utilize a 1/2.5-inch 4K UHD CMOS image sensor, enabling superior quality images at 4K (3840x2160) resolution. It's also compatible with various resolutions such as 1080P and 720P.
- Wide-Angle Long Zoom**
 The panoramic cameras provide optional 48° and 107° wide-angle lenses for capturing panoramic shots of teachers and students. The close-up cameras, with a 71° field of view and a 12x optical zoom lens, capture clear close-up shots of teachers and students.
- AI Smart Tracking**
 Featuring built-in AI video algorithms, the camera automatically adjusts its lens based on participant position changes. Additionally, it can focus on speakers based on their voice, providing close-up shots as needed.
- Built-in Microphone Array**
 Equipped with a microphone array that captures audio from all directions, with a pickup distance of up to 6 meters. The unique noise suppression algorithm ensures perfect audio reproduction.
- Rich and perfect interfaces**
 Supports HDMI 1.4b for HD output, equipped with a 3G-SDI interface for effective transmission over distances of up to 150 meters (1080P30). Simultaneously outputs 4 channels of HD digital signals through HDMI, 3G-SDI, USB 3.0, and LAN.
- Low-Light Enhancement**
 A brand-new CMOS image sensor with a 55dB SNR effectively reduces image noise in low-light conditions. The 3D noise reduction significantly lowers image noise, ensuring clear images in low-light situations.
- POE+ support**
 The wired network supports Poe power supply, and control, power supply, video and audio can be completed with only one network cable.
- Built-in Gravity Sensor**
 Supports image auto-flipping function, facilitating easy installation and use in various setups.
- Multiple Preset**
 Support 255 preset positions (the remote controller is set to 10preset positions).
- Wide Application**
 Tele-education, Lecture Capture, Webcasting, Videoconferencing, Tele-training, Tele-medicine, Interrogation and Emergency command system.

Technical Specification

Model DT80

Close-up Camera Specification

Signal System HDMI: 4KP30, 4KP25, 4KP29.97, 1080P30, 1080P25;
SDI: 1080P30, 1080P25;

Sensor 1/2.5 inches, CMOS, Effective Pixels: 8.51 Megapixels

Scanning Mode Progressive

Lens 12x, f=4.4mm~52.8mm, F1.8~F2.6

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 3D Digital Noise Reduction

SNR ≥ 55dB

Horizontal FOV 71° ~ 8.2°

Vertical FOV 42.7° ~ 4.5°

Pan Angle ±170°

Tilt Angle ±30°

Pan Speed 1.61° ~ 75.56° /s

Tilt Speed 0.44° ~ 15° /s

Image Flip Support

Image Freeze Support

Preset Position 255

Preset Accuracy 0.1°

Panoramic Camera Specification

Signal System HDMI: 4KP30, 4KP25, 4KP29.97, 1080P30, 1080P25;
SDI: 1080P30, 1080P25;

Sensor 1/2.5 inches, CMOS, Effective Pixels: 8.51 Megapixels

Scanning Mode Progressive

Type of Lens Mount M12

Lens I Focal length: f=8.0mm, Horizontal FOV: 48°

Lens II Focal length: f=1.97mm, Horizontal FOV: 107°

Minimum Illumination 0.5 Lux @ (F1.8, AGC ON)

Shutter 1/30s ~ 1/10000s

White Balance Auto, Indoor, Outdoor, One Push, Manual, VAR

Digital Noise Reduction 3D Digital Noise Reduction

Backlight Compensation Support

Image Freeze	Support
Image Flip	Support

Input and Output Interfaces

HD Output	1 x HDMI, Version 1.4b; 1 x 3G-SDI: BNC, 800mVp-p, 75Ω, as per SMPTE 424M standard
Network interface	1 x RJ45: 10M / 100M /1000M adaptive Ethernet; PoE+ supported
Audio Interface	1 x LINE In: 3.5mm Jack
USB Interface	1 x USB 3.0: Type-B; 1 x USB2.0: Type-A
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	1 x DC-005/Φ2.0 type (DC IN 12V)

Network Specification

Video Compression Format	H.265 / H.264 / MJPEG
Image Stream	First Stream, Second Stream
First Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576etc.
Second Stream Resolution	720x480, 320x240 etc.
Video Bit Rate	32kbps~51200kbps
Bit Rate Control	VBR, CBR
Frame Rate	50Hz: 1fps~50fps, 60Hz:1fps~60fps
Audio Compression	AAC, G711A
Audio Bit Rate	96Kbps, 128Kbps
Protocols	NDI® HX2 (Optional), SRT,TCP/IP, HTTP, RTSP, RTMP(s), Onvif,DHCP,GB/T 28181, Multicast, etc.

USB Specification

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: Max.1080P30; H.264 AVC: Max.2160P30; H.265 HEVC: Max.2160P3; MJPEG: Max.2160P30
USB Audio	Support
USB video communication protocol	UVC 1.1 and 1.5
UVC PTZ control	Support

General Specification

Input Voltage	DC 12V/PoE+ (802.3at)
Input Current	2A (Max.)
Operating Temperature	-10° C ~ 40° C
Storage Temperature	-40° C ~ 60° C

Power Consumption	18W (Max.)
Dimension	200mm (W) x 177mm (D) x 165mm (H)
Net Weight	1.76kg

Accessory

Package	Power supply, USB3.0 cable, Remote controller, User manual
Optional Accessories	Ceiling / Wall Mount (Extra Cost)

Interface Picture:

