

AT240

USB Tracking Camera | 4K Binocular Teacher-Student Camera

Compact 4K intelligent binocular tracking camera with integrated close-up and panoramic lenses, USB 3.0 Type-C connectivity, POE, and built-in dual microphones for classrooms and small meeting rooms.



4K Close-up

AI Tracking

Dual Mics

110° Wide

USB 3.0

POE Ready



The AT240 is a compact 4K intelligent binocular tracking camera integrating a close-up teacher lens and a wide-angle student panoramic lens in a single unified body. Built-in image recognition and tracking algorithms deliver fast, stable, and accurate presenter tracking without any additional positioning cameras or tracking hosts, making it ideal for classrooms and small meeting spaces.

Close-up Res 3840×2160P30	Panoramic Res 2880×1616P30	Mic Range 6-7 Meters
Pan / Tilt ±40° / -30°~+5°	Power Consumption 10W Max	Interface USB 3.0 Type-C + LAN

IDEAL FOR

Classrooms

Track teachers automatically while capturing the full classroom view.

Training Rooms

Compact all-in-one camera for instructor-led training sessions.

Huddle Spaces

Small meeting room coverage with integrated close-up and wide views.

Hybrid Learning

Stream lessons to remote students with automatic teacher tracking.

PRODUCT DESCRIPTION

The AT240 is a compact 4K intelligent binocular tracking camera with integrated close-up and panoramic lenses in one body. The close-up (teacher) lens uses an 8.31-megapixel 1/2.7" HD CMOS sensor with F1.6 iris and approximately 4× digital zoom, while the panoramic (student) lens offers a 110° distortion-free wide-angle view of the entire room.

The camera connects via USB 3.0 Type-C for direct PC connection, or via 100Mbps LAN with POE (802.af) support for network deployment. Dual 3.5mm linear audio inputs and built-in dual microphones with 6-7 meter pickup range provide flexible audio capture options for any room configuration.

A concealed hybrid mechanical and electronic pan-tilt mechanism combined with autofocus on the close-up lens delivers smooth, stable tracking with a wider field of view and clearer visibility. Video compression supports H.264 and H.265, with network protocols including RTSP, RTMP, ONVIF, GB/T28181, and IP VISCA for seamless integration with recording and streaming systems.

■ 4K	Close-up Resolution
■ 110°	Panoramic FOV
■ 6-7m	Mic Pickup Range
■ 8.31MP	Teacher Camera Sensor
■ POE	802.af Powered Ethernet
■ 255	Preset Positions

PRODUCT KEY FEATURES

 Integrated Dual-Lens Design Built-in close-up and panoramic lenses in a single compact body combine tracking and wide-angle camera functions, achieving 3840×2160P30 close-up and 2880×1616P30 panoramic resolution.	 Intelligent Teaching Tracking Built-in advanced image recognition and tracking algorithms achieve fast, stable, and accurate tracking of targets without any additional positioning cameras or tracking hosts.	 Hybrid Pan-Tilt System Concealed mechanical pan-tilt mechanism integrated with an electronic pan-tilt system, paired with autofocus, delivers smoother tracking and a wider field of view.
 Wide-Angle Student View High-quality, distortion-free 110° wide-angle student camera lens captures panoramic views covering all students within the classroom.	 Built-in Dual Microphones Features a built-in microphone array with omnidirectional sound pickup, with a maximum pickup distance of 6 to 7 meters.	 Ultra-HD Close-up Clarity Both teacher and student cameras feature telephoto lenses with narrow fields of view, significantly enhancing close-up image clarity.
 USB 3.0 & POE Connectivity Connect via USB 3.0 Type-C for direct PC use, or via LAN with POE (802.af) support for simplified network installation without separate power cabling.	 Compact Form Factor Slim 270 × 70 × 76.5mm design weighing just 0.639kg mounts easily above a whiteboard or on a shelf without dominating the room.	 Broad Compatibility UVC video format support with H.264, MJPEG, and YUY2 at up to 3840×2160P30 ensures compatibility with a wide range of recording and conferencing software.

TECHNICAL SPECIFICATIONS

TEACHER CAMERA (CLOSE-UP)

Image Sensor	1/2.7" HD CMOS, 8.31 Megapixels, 16:9
Focal Length	f = 16.26mm
Viewing Angle	20.1°
Iris	F1.6
Digital Zoom	Approx. 4×
Min Illumination	0.5 Lux (F2.0, AGC ON)
DNR	2D & 3D
White Balance	Manual / Auto / One-touch / Custom Color Temp
Exposure	Auto / Manual / Shutter Priority / Brightness Priority
BLC	On / Off
Auto Focus	Supported (Teacher Close-Up Camera)

STUDENT CAMERA (PANORAMIC)

Image Sensor	1/2.7" HD CMOS, 4.68 Megapixels
Lens	Fixed-focus
Teacher Panoramic Focal Length	f = 7.86mm
Teacher Panoramic Horizontal View	45°
Teacher Panoramic Iris	F2.6
Vertical Manual Rotation Range	+0° ~ -20°
Student Camera Focal Length	f = 2.03mm
Student Camera Horizontal View	110°
Student Camera Iris	F2.2

VIDEO

Video Compression Format	H.264, H.265
Network Protocol	RTSP, RTMP, ONVIF, GB/T 28181, IP VISCA
LAN Close-up Main Stream	3840×2160 P30/25, 1920×1080 P30/25
LAN Panoramic Main Stream	2880×1616 P30/25, 1920×1080 P30/25
UVC Video Format	H.264 / MJPEG / YUY2, Max 3840×2160P30

PTZ PARAMETERS

Pan Move / Speed	-40° ~ +40°, 40°/s
Tilt Move / Speed	-30° ~ +5°, 40°/s
Presets	Up to 255 (10 via Remote Control)

AUDIO

Built-in Microphone	Built-in Dual Microphones for Audio Pickup
Analog Audio Input	1 × Line Input
Digital Audio	1 × Network Audio Output; 1 × USB Audio Output
Audio Compression	AAC, G.711A

INTERFACE

Video Output	1 × USB 3.0 Type-C, 1 × LAN (100Mbps, 10/100 BASE-TX, POE 802.af)
Audio Input	Dual 3.5mm Linear Input
Reset Button	RESET
Power Adapter	Input AC110V~AC220V; Output DC12V
Input Voltage	DC12V ±10%
Input Current	0.833A
Total Power Consumption	10W (Max)

GENERAL

Storage Temperature	-20°C ~ +60°C
Storage Humidity	20% ~ 95%
Working Temperature	0°C ~ +40°C
Working Humidity	20% ~ 80%
Dimensions	270 × 70 × 76.5 mm
Weight	0.639 kg