

Silex EdTech AT20

Intelligent auto-tracking camera for education



Silex EdTech AT20 is a high-definition intelligent auto-tracking camera specially designed for education environments. For medium to large classrooms or training rooms, this compact camera is built-in with a 20x optical zoom, high-speed processor, advanced image processing and analysis algorithms to track the lecturer quickly and accurately - a major requirements for remote interactive teaching. With its step driving motor mechanism and strong anti-interference ability, Silex EdTech AT20 locks its target, is extremely quiet and moves smoothly offering an excellent auto-tracking experience.

Auto-tracking features

- Built-in reference panoramic camera: Insures an optimal fusion between the reference camera and the tracking camera
- Advanced tracking algorithms: Advanced human presence detection, locking and tracking
- Analysis algorithm: Ensures the tracking is steady, accurate, fast and silent
- Strong anti-interference ability: once the tracking target is locked, it is not affected by other moving objects, projectors...
- Smooth tracking: The sensitivity to movement can be adjusted. Small movements or gestures will not trigger the camera to move unnecessarily
- Auto adaptation: Depending on the tracked target's location in the room, the tracking camera will automatically zoom keeping the video image in the appropriate size and proportions
- Ultra-wide dynamic exposure: Solves the challenge of the tracking target darkening when moving in front of a projector's light.

Specifications

Tracking Camera:

- Camera sensor: 1/2.8" CMOS
- Effective pixel: 2.07 Megapixel
- Ratio: 16:9
- Lens focus: 4.7mm~94mm
- Optical zoom: 20x optical zoom
- Digital zoom: 10x
- View angle: 2.9° (tele) ~ 55.4° (wide)
- Iris: F1.6 ~ F3.5
- Video output format: 1080P60, 1080I60, 720P60
- White balance: Manual/Auto/One Push/3000K/4000K/5000K/6500K
- Focus: Auto/Manual
- Aperture: Auto/Manual
- Electronic shutter: Auto/Manual
- BLC: ON/OFF
- WDR: OFF/Dynamic range adjustment
- Video adjustment: Brightness, Color, Saturation, contrast, Sharpness, Gamma curve
- SNR: >55db

Scene Camera:

- Camera sensor: 1/3" CMOS
- Effective pixel: 2.1 Megapixel
- Lens focus: Manual
- View angle (D/H/V): 90°/71°/52°

Pan Tilt Parameters:

- Pan rotation: -170° ~ +170°
- Tilt rotation: -30° ~ +90°
- Pan control speed: 0.1° ~ 100°/s
- Tilt control speed: 0.1° ~ 45°/s
- Preset speed: Pan: 100°/s, Tilt: 45°/s
- Number of presets: up to 255 presets (10 presets from remote control)

Input/Output Interface and Protocols:

- Video interface: HDMI, USB 3.0
- Network interface: 100M network interface (10/100BASE-TX) – 5G WiFi (optional)
- Network protocol: RTSP, RTMP, ONVIF, GB/T28181
- Compress image code stream: Dual stream output
- Video compress format: H.264, H.265
- Control signal interface: RS-232
- Control Protocol: Visca/Pelco-D/ Pelco-P
Baud rate: 115200/9600/4800/2400bps
- Audio input interface: Dual Audio channel 3.5mm linear input
- Audio compress format: AAC, MP3, PCM
- Power interface: HEC3800 power jacket (DC12V)

Power:

- Consumption: 18W Max
- Power adapter: Input AC110V-AC220V to DC12V/2.5A
- Input voltage: Output DC12V +- 10%
- POE power supply (optional)
- Input current: 1.5A Max

Weight and Dimensions:

- Dimension (WxHxW): 254mmx144mmx174mm
- Weight: 1.5 Kg

Temperature and humidity:

- Working temperature: -10°C ~ 50°C
- Storage temperature: -10°C ~ 60°C
- Working humidity: 20-80%
- Storage humidity: 20-95%



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