



Silex Eye-Clarity ZT-12

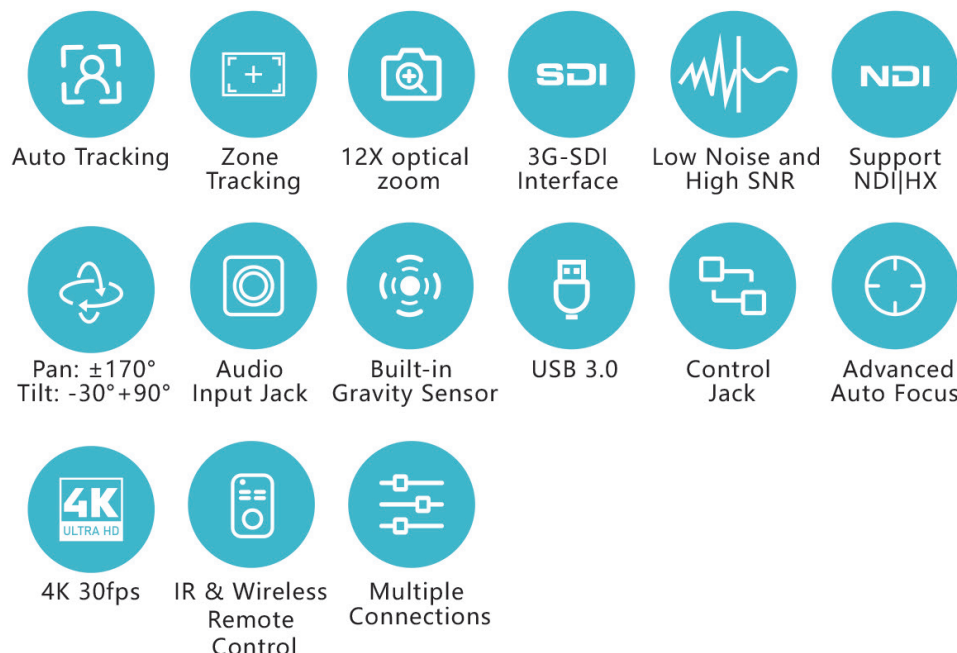
Auto-tracking and Zone-tracking 12x PTZ 4K Cam



Silex Eye-Clarity ZT-12 is an Auto-tracking and Zone-tracking 12x PTZ 4K Cam. This camera is designed with the complex nature of today's business in mind, allowing teachers or active users tracking during video calls while using the video conferencing software of their choice.

Main Features

- AI Human Detection: Real-time tracking and zone-tracking
- 4K Ultra HD: 1/ 2.8 inch high quality 4K SONY CMOS sensor; 8.50 megapixel, resolution 4K (3840x2160)
- Optical Zoom: 12X optical zoom with 70° viewing angle
- Advanced Auto Focus Technology allowing the camera to move fast, accurately, and stably
- Low Noise and High SNR: Low noise CMOS provides high SNR. The use of leading 2D, 3D noise reduction technology further reduce the noise while not compromising the clarity of image
- Multiple Connections: HDMI, SDI, USB3.0, wired LAN and PoE
- USB3.0 supports dual stream and SDI supports 100 meters transmission at 1080P60
- Video Compression: YUY2, MJPEG, H.264, H.265, NV12 video coding formats
- Audio Compression: AAC, MP3, G.711A
- Built-in Gravity Sensor: Supporting PTZ auto flip
- Network Protocols: ONVIF, GB/T 28181, RTSP, RTMP, VISCA OVER IP, IP VISCA, RTMPS, SRT, RTMP Push Mode, RTP multi-broadcasting mode (making it easy to link with stream media servers like Wowza, FMS)
- Control: RS422 compatible with RS485, RS232-IN, RS232-OUT (for cascading)
- Control Protocols: VISCA, PELCO-D, PELCO-P with automatic identification of the protocols
- Super Quiet PTZ Movement using step driving motor mechanism and high precision motor
- Low-power Sleep Mode/Wake up: The power consumption in sleep mode is less than 400mW
- Multiple Presets: 255 presets (10 presets called via remote control)
- IR & Wireless Remote Control



Specifications

Camera / Lens:

- Image sensor: 1/ 2.8 Inch SONY CMOS Sensor
- Effective pixels: 851M, 16:9
- Video Format:
 - HDMI: 4KP30, 4KP25, 1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50, 1080P59.94, 1080P29.97, 720P59.94
 - SDI: 1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50, 1080P59.94, 1080P29.97, 720P59.94
 - USB3.0 Main Stream:
 - ◇ YUY2/ NV12: 1920×1080@10/ 5fps; 1280×720@25/ 20/ 15/ 10/ 5fps; 1024×576/ 800×600/ 800×448/ 640×360/ 480×270/ 320×180@30/ 25/ 20/ 15/ 10/ 5fps
 - ◇ MJPG/ H264: 3840×2160/ 2560×1440/ 1920×1080/ 1600×896/ 1280×720/ 1024×576/ 960×540/ 800×600/ 800×448/ 720×576/ 720×480/ 640×360/ 640×480/ 480×270/ 352×288/ 320×240@30/ 25/ 20/ 15/ 10/ 5fps
 - USB3.0 Sub Stream:
 - ◇ YUY2/ NV12: 1280×720/ 1024×576/ 800×600/ 800×448/ 640×360/ 640×480/ 480×270/ 320×180@30/ 25/ 20/ 15/ 10/ 5fps
 - ◇ MJPG/ H264: 1920×1080/ 1600×896/ 1280×720/ 1024×576/ 960×540/ 800×600/ 800×448/ 720×576/ 720×480/ 640×360/ 640×480/ 480×270/ 352×288/ 320×240@30/ 25/ 20/ 15/ 10/ 5fps
- Optical zoom: 12X
- Horizontal viewing angle: 6.5° (Narrow) ~ 70.9° (Wide)
- Iris value: F1.6 ~ F2.8±5%
- Digital zoom: X15
- Minimum illumination: 0.5Lux (F1.8, AGC ON)
- DNR: 2D & 3D

- White balance: Auto/Manual/One-Push/ Specified Temperature
- Focus Mode: Auto/Manual/One-push
- Exposure Mode: Auto, Manual, Shutter Priority, Iris Priority, Bright Priority
- Iris: F1.8 ~ F11, CLOSE
- Shutter Speed: 1/25 ~ 1/20000
- BLC: On/Off
- Dynamic range: Off, 1 ~ 8
- Video adjustment: Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve
- SNR: >50dB

PTZ:

- Pan: -170° ~ +170°
- Tilt: -30° ~ +90°
- Pan speed: 0.1°/s ~ 60°/s
- Tilt speed: 0.1°/s ~ 45°/s
- Preset speed: Pan: 60°/s, Tilt: 45°/s
- Number of presets: 255 presets (10 via remote control)

AI Function:

- Real-time tracking: Maximum tracking range is 6-7 meters, allowing speakers to move at speed of 3-4 meters.
- Zone tracking
 - 4 tracking zones
 - Zones range: -170° ~ +170° horizontal and -30° ~ +90° vertical

Interface:

- HDMI, SDI, LAN (POE), USB3.0, Line-IN, RS232-IN, RS232-OUT, RS422 (Compatible with RS485), DC12V power, supply, dial switch, power switch
- Video output: HDMI, SDI, LAN, USB3.0
- Video compression formats:
 - LAN: H.264, H.265;
 - USB 3.0: MJPG, H264, YUY2, NV12
- Audio output: Dual channel 3.5mm, HDMI, SDI, LAN, USB3.0
- Audio compression formats: AAC, MP3, G.711A. Sampling rates 16000Hz, 32000Hz, 44100Hz, 48000Hz are available under AAC, MPS formats
- Network port: Ethernet 10M/100M/1000M (POE), supports audio/video output
- Network protocols: RTSP, RTMP/RTMPS, ONVIF, GB/T28181, VISCA OVER IP, IP VISCA, SRT, Support remote upgrade, remote reboot, remote reset
- Control: RS232-IN, RS232-OUT (cascading), RS422/RS485
- Serial port protocols: VISCA/Pelco-D/Pelco-P
- Baudrate: 115200/38400/9600/4800/2400
- USB audio & video communication and control protocols: UAC, UVC
- Power interface: HEC3800 power socket (DC12V)
- Power adapter: Input AC110V~AC220V; Output DC12V/2.5A
- Voltage: DC12V±10%
- Current: <1A
- Power consumption: <12W

Other specifications:

- Storage temperature: -10°C ~ 70°C
- Storage humidity: 20% ~ 95%
- Working temperature: -10°C ~ +50°C
- Working humidity: 20% ~ 80%
- Dimension: 181(L)mm × 115mm(W) × 149mm(D)
- Weight (Approximate): 1.2kg
- Environment: Indoor
- Standard accessory: Power adapter, RS232 control cable, USB3.0 cable, remote control, user manual
- Optional accessory: Brackets



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