



VORTEX Series

SD834-EHL

5MP Outdoor AI PTZ Camera



Technical Specifications

Camera Specifications	
Image Sensor	1/2.8" Progressive CMOS
Max. Resolution	SD: 1280x960 HD: 2560x1920
Lens Type	30x Optical Zoom, Auto Focus
Focal Length	f = 4.94 ~ 148.24 mm (30x zoom)
Aperture	F1.3 ~ F4.6
Iris Type	DC-iris
Field of View	54.1° ~ 1.9° (Horizontal) 41.2° ~ 1.4° (Vertical) 65.7° ~ 2.4° (Diagonal)
Shutter Time	1 sec. to 1/100,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut filter	Yes
Illuminators	Built-in IR illuminators up to 200 meters with Smart IR, IR LED*8
Minimum Illumination	0.03 lux @ F1.3 (Color) 0.005 lux @ F1.3 (B/W) 0 lux with IR illumination on
Pan Speed	0.05° ~ 450°/sec
Pan Range	360° endless
Tilt Speed	0.05° ~ 450° /sec
Tilt Range	-20° ~ +90°
Preset Location	256 preset locations / 128 presets per tour
Storage	MicroSD/SDHC/SDXC card slot (Built-in 256GB industrial SDCard)

Video

Video stream settings	HD Video 2560 x 1920@15fps 1.2Mbps upload SD Video 1280 x 960@15fps 300Kbps upload
-----------------------	---

Audio	
Audio Capability	Two-way Audio (full duplex) (xPro License required to enable speaker talk-down feature)
Interface	External line input External line output

Network	
Users	Up to 6 clients *Live viewing for 6 clients *live viewing up to 4 clients and playback 2 clients
Security	Secure boot, Signed firmware, HTTPS/TLS encryption, Video encryption
Protocols	ARP, DHCP, DNS, HTTP, HTTPS, ICMP, IPv4, NTP, RTSP/RTP/RTCP, SSL, TCP/IP, TLS 1.2, UDP, WebRTC
Interface	10BASE-T/100BASE-TX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.

General	
Connectors	RJ-45 cable connector for 10/100 Mbps Network/PoE connection Audio line input * Audio line output * DC 48V power input AC 24V power input Digital input *2 * Digital output *1 * RS-485 *1 * * Requires AO-008 cable
LED Indicator	System power and status indicator
Power Input	AC 24V, DC48V, IEEE 802.3bt Class 6 PoE (Simultaneous Power Redundancy Supported)
Power Consumption	PoE Max: 51W/26W (IR on/off) DC 48V Max: 51W/26W (IR on/off) AC 24V Max: 51W/26W (IR on/off) IR on: 51W/45W Heater and fan on/off IR off: 26/20W Heater and fan on/off
Dimensions	256 (D) x 336 (H) mm
Weight	7.1 kg
Certifications	EMC CE (EN 55032 Class A, EN 55035, EN 50121-4), UKCA (BS EN 55032:2015+A11:2020, BS EN 55035:2017), FCC (FCC Part 15 Subpart B Class A), IC (ICES-003:2020 Issue 7, Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A) Safety UKCA (BS EN 62368-1:2014+A11:2017), UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471) Environment IK10 (IEC 62262), IP66 (IEC 60529), NEMA (NEMA 250 Type 4X)
Operating Temperature	Starting Temperature: -40°C ~ 55°C (-40°F ~ 131°F) Working Temperature: -40°C ~ 60°C (-40°F ~ 140°F) (IR on)
Humidity	98% RH (non-condensing)
Warranty	Up to 60 months (Depends on license type)

Included Accessories	
Packing Contents	Wall mount bracket, Quick installation guide, Screws and anchors, T10 and T25 L-wrench, Waterproof round cap, screw pack, Ground wire, Terminal blocks (for DI/DO audio, AC/DC/GND wires, RS485)

VORTEX AI Analytics	
Application	Intrusion detection Line crossing detection Loitering detection Unattended object detection Missing object detection
Audio detection	Yes
Camera tampering detection	Yes
AI Hub (xPro license required)	Attribute search Scene search Re-search Profile search LPR search Think search Event insight Facial recognition