



VORTEX Series

IT939-HTVW

8MP Dual Light AI Turret Camera



Technical Specifications

Camera Specifications	
Image Sensor	1/1.8" Progressive CMOS
Max. Resolution	SD: 1280x720 HD: 3840x2160
Lens Type	Motorized, Vari-focal, Remote Focus
Focal Length	f = 4.3 ~ 9.8 mm
Aperture	F1.6 ~ F2.6
Iris Type	P-iris
Field of View	110.4° ~ 45.1° (Horizontal) 57.9° ~ 25.4° (Vertical) 133.9° ~ 51.8° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut filter	Yes
Illuminators	Built-in Warm Light & Infrared (Hybrid) illuminators, IR effective up to 40 meters & warm light effective up to 30 meters with Smart IR/ warm light
Minimum Illumination	0.02 lux @ F1.6 (Color) <0.005 lux @ F1.6 (B/W) 0 lux with IR illumination on
Pan Range	350°
Tilt Range	70°
Rotation Range	350°
Storage	MicroSD/SDHC/SDXC card slot (Built-in 512GB industrial SDCard)

Video

Video stream settings	HD Video 3840 x 2160 (8MP) @15fps 3Mbps upload SD Video 1280 x 720@15fps 300Kbps upload
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Audio

Audio Capability	Two-way Audio (full duplex) (xPro License required to enable speaker talk-down feature)
Interface	Built-in microphone Built-in speaker External microphone input External line output
Effective Range	5 meters

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 *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 Digital input: 1 Digital output: 1
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 3
Power Consumption	Max. 12.4W/9.6W (IR on/off)
Dimensions	137.9 (D) x 116.9 (H) mm
Weight	780 g
Certifications	EMC CE (EN 55032, EN 55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A); IC (ICES-003 Issue 7, Class A) Safety UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 62368-1, IEC/EN 62471); UKCA (BS EN IEC 62368-1) Environment IK10 (IEC 62262), IP66 (IEC 60529) IA BIS (IS 13252), BSMI (EMC: CNS 13438, Safety: CNS 14336-1)
Operating Temperature	Starting Temperature: -10°C ~ 50°C (14°F ~ 122°F) Working Temperature: -30°C ~ 50°C (-22°F ~ 122°F) (IR off) -30°C ~ 45°C (-22°F ~ 113°F) (IR on)
Humidity	98% RH (non-condensing)
Warranty	Up to 120 months (Depends on license type)

Included Accessories

Packing Contents	Quick installation guide, alignment sticker, screw pack, cable gland
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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
Advanced AI (Advanced AI license required)	Personal protective equipment License plate recognition Fall detection Think alert