



VORTEX Series

IT830-HV

5MP Outdoor Turret AI Camera



Technical Specifications

Camera Specifications	
Image Sensor	1/2.7" Progressive CMOS
Max. Resolution	SD: 1280x960 HD: 2880x1616
Lens Type	Fixed-focal
Focal Length	f = 2.8 mm
Aperture	F1.6
Iris Type	Fixed Iris
Field of View	111.0° (Horizontal) 59.0° (Vertical) 133.0° (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 IR Illuminator up to 30 meters with Smart IR, IR LED*2
Minimum Illumination	0.055 lux @ F1.6 (Color) 0.005 lux @ F1.6 (B/W) 0 lux with IR illumination on
Tilt Range	90°
Rotation Range	180°
Storage	MicroSD/SDHC/SDXC card slot (Built-in 256GB industrial SDCard)

Video	
Video stream settings	HD Video 2880 x 1616@15fps 1.2Mbps upload SD Video 1280 x 960@15fps 300Kbps upload

Audio	
Audio Capability	Two-way Audio
Interface	Built-in microphone External line input External line output
Effective Range	5 meters

Network	
Users	Up to 4 clients *Live viewing for 4 clients *live viewing up to 2 clients and playback 2 clients
Security	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 10/100/1000 Mbps Network/PoE connection Audio line input Audio line output DC 12V power input Digital input x1 Digital output x1
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 3 DC 12V
Power Consumption	DC 12V: Max. 5.76W PoE: Max. 5.87W, typical 2.7W
Dimensions	105 (D) x 82.8 (H) mm
Weight	537 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 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1) Environment IK10 (IEC 62262), IP66, IP67 (IEC 60529) IA BSMI (EMC: CNS 15936, Safety: CNS 15598-1)
Operating Temperature	Starting Temperature: -30°C ~ 60°C (-22°F ~ 140°F) Working Temperature: -30°C ~ 60°C (-22°F ~ 140°F)
Humidity	90% 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

VORTEX AI Analytics	
Application	Intrusion detection Line crossing detection Loitering detection
Audio detection	Yes
Camera tampering detection	Yes
AI Hub (xPro license required)	Scene search Think search Event insight