



VORTEX Panoramic Cameras



Technical Specifications

Model	MS930-EHV
Camera Features	
Image sensor	1/2.7" Progressive CMOS
Resolution	HD 4864 x 1632 (8MP) SD 2432x 816
Lens Types	Fixed-focal
Focal Length	f = 2.8 mm
Aperture	F1.2
Iris	Fixed iris
Field of View	180° (Horizontal) 50° (Vertical) 180° (Diagonal)
Camera Movement	Tilt: 20°
Shutter Speed	1/30 sec. to 1/32,000 sec.
Day/Night	Yes
IR Cut Filter	Yes
IR Range	20 meters
Minimum Illumination	0.018 lux @ F1.2 (Color), 30IRE <0.01 lux @ F1.2 (B/W) 0 lux with IR illumination on
Onboard Storage	MicroSD/SDHC/SDXC card slot (Built-in 512GB industrial SDCard)
Standard video settings	
Frame Rate	15FPS
Video Streaming Settings	HD 4864 x 1632 (8MP)@15fps 3Mbps upload SD 2432x 816@15fps 400Kbps upload
Standard audio settings	
Audio	One-way Audio
Interface	Built-in microphone
Effective Range	5 meters
Power and network	
Power input	IEEE 802.3at PoE Class 4
Power Consumption	Max: 20 W / 13.5W (IR on/ IR off)
Connectivity	RJ-45 cable connector for 10/100 Mbps PoE network connection
RTSP	WebRTC, ARP, DHCP, DNS, HTTP, HTTPS, ICMP, IPv4, IPv6, NTP, QoS (CoS/DSCP), RTSP/RTP/RTCP, SSL, TCP/IP, TLS 1.2, UDP
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
Interface	10 Base-T/100 Base-TX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.
General	
Operating Temperature	Starting Temperature: -30°C ~ 55°C (-22°F ~ 131°F) Working Temperature: -40°C ~ 50°C (-40°F ~ 122°F) (IR on)
Humidity	90% RH (non-condensing)
Certifications	EMC: CE (EN 55032, EN 55024 Class A), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A); UKCA (BS EN 55032: 2015 +A11: 2020, BS EN 55035: 2017 +A11: 2020), Safety: UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471)
Warranty	60-month
Included Accessories	Quick installation guide, alignment sticker, desiccant bag, screw driver, screws pack, sunshield
Mechanical	
Weight	1.2 kg
Dimensions	165 x 112 x 97 mm (w/o sunshield) 165 x 100 x 119 mm (w/ sunshield)
Body	Metal
AI Analytics	
Audio detection	Yes
Tampering detection	Yes
People Analytics	Intrusion detection, Line crossing detection, Loitering detection, Appearance Search, Scene Search, Re-Search
Vehicle Analytics	Intrusion detection, Line crossing detection, Loitering detection, Appearance Search, Scene Search, Re-Search
Object Analytics	Unattended object detection, Missing object detection