VIVOTEK
A Delta Group Company

VORTEX Series



FE931-EHV (1.18 mm)

12MP Fisheye Panoramic AI Camera

Technical Specifications

Camera Specifications	
Image Sensor	1/2.3" Progressive CMOS in 4056x3040
Max. Resolution	SD: 1024x1024 HD: 2816x2816
Lens Type	Fixed-focal
Focal Length	f = 1.18 mm
Aperture	F2.18
Iris Type	Fixed Iris
Field of View	180.0° (Horizontal) 180.0° (Vertical) 180.0° (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 illuminators, effective up to 20 meters with Smart IR II, IR LED*4 (50IRE)
Minimum Illumination	0.1 lux @ F2.18 (Color) <0.005 lux @ F2.18 (B/W) 0 lux with IR illumination on
Storage	MicroSD/SDHC/SDXC card slot (Built-in 512GB industrial SDCard)

Video	
Video stream settings	HD Video 2816x2816@15fps 3Mbps upload SD Video 1024 x 1024@15fps 300Kbps upload

Audio	
Audio Capability	One-way Audio
Interface	Built-in microphone
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 (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 PoE network connection
LED Indicator	System power and status indicator
Power Input	IEEE 802.3at PoE Class 4
Power Consumption	Max. 22.8/10.75W
Dimensions	150 (D) x 68.4 (H) mm
Weight	701 g
Certifications	EMC CE (EN 55032 Class A, EN 55024), FCC (FCC Part 15 Subpart B Class A), VCCI (VCCI-CISPR 32 Class A) Safety UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22) Environment IK10 (IEC 62262), IP66 (IEC 60529), NEMA (NEMA 250 Type 4X);
Operating Temperature	Starting Temperature: -20°C ~ 50°C (-4°F ~ 122°F) Working Temperature: -40°C ~ 55°C (-40°F ~ 131°F) (IR off) -40°C ~ 50°C (-40°F ~ 122°F) (IR on)
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, desiccant bag

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

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