



VORTEX Series

FD939-EHTV

8MP Outdoor Dome 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 IR illuminators, effective up to 40 meters with Smart IR, IR LED*4
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	80°
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)* * Requires AO-015 cable (xPro License required to enable speaker talk-down feature)
Interface	Built-in microphone External microphone input* External line output* * Requires AO-015 cable.
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 Network/PoE connection Audio line input* Audio line output* Digital input: 1* Digital output: 1* * Requires AO-015 cable
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	134 (D) x 116 (H) mm
Weight	990 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 NEMA (NEMA 250 Type 4X), IK10 (IEC 62262), IP66 (IEC 60529), BSMI (EMC: CNS 13438, Safety: CNS 14336-1)
Operating Temperature	Starting Temperature: -20°C ~ 50°C (-4°F ~ 122°F) Working Temperature: -35°C ~ 60°C (-31°F ~ 140°F) (IR off) -35°C ~ 50°C (-31°F ~ 122°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, L-shaped wrench, screw pack

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