AVEM-PTZ254167

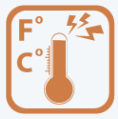
Thermal Camera

Thermal and Optical Bi-spectrum Network Speed Dome equipped with built-in GPU which supports intelligent perimeter protection algorithm, can realize high-precision VCA detection and real-time alarm.







Optical Module	
Image Sensor	1/1.8" Progressive Scan CMOS
Resolution	2688 × 1520, 4 MP
Min. Illumination	Color: 0.005 Lux @(F1.3, AGC ON), B/W: 0.001 Lux @(F1.3, AGC ON)
Field of View	56.6° ×33.7° (H × V)~1.8° ×1.0° (H × V)
Focal Length	6-240 mm, 40x
Aperture (Range)	F1.3-F4.6
Focus Mode	Auto/Semi-auto/Manual
Digital Zoom	×2, ×4, ×8, ×16
Shutter Speed	1s to 1/30,000s
WDR	120 dB
Optical Defog	Yes
Thermal Module	
Image Sensor	VOx Uncooled Focal Plane Arrays
Resolution	640 × 512
Pixel Interval	17 μm
Response Waveband	8 μm to 14 μm
NETD	Less than 40 mK (@ 25 °C,F#=1.0)
Focal Length	25 mm
Focus Mode	Athermalized
IFOV	0.68 mrad
Aperture	F1.0
Field of View	24.5° × 19.7° (H × V)
Min. Focusing Distance	13m
Digital Zoom	×8

PTZ	
Movement Range	Pan: 360° Continuous Rotate; Tilt: From -20° to + 90° (auto flip)
Pan Speed	Configurable, From 0.1°/s to 200°/s, Preset Speed: 240°/s
Tilt Speed	Configurable, From 0.1°/s to 105°/s, Preset Speed: 200°/s
Proportional Zoom	Yes
Presets	300 in total, 273 are configurable.
Patrol Scan	8; Up to 32 Presets Per Patrol
Pattern Scan	4; More Than 10 Minutes Per Pattern
Power Off Memory	Yes
PT Status	Turn On/Turn Off
Park	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan
Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux Output
Illuminator	
IR Distance	Up to 150m
Day & Night	IR cut filter
IR Intensity and Angle	Automatically adjusted
Advance Function	
VCA	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 10 scenes and 8 VCA rules for each scene
Temperature Measurement	Support 3 temperature measurement rule types, 273 presets as scene, 21 rules of each scene (10 points, 10 areas, and 1 line)
Temperature Range	-20 °C to 150 °C (-4 °F to 302 °F)
Temperature Accuracy	± 8 °C (±14.4 °F)
Fire Detection	Dynamic fire detection, up to 10 fire points detectable.
Smoke Detection	Supported
Event Support	Supports high / low / abnormal temperature alarm and temperature difference alarm
Video and Audio	
Main Stream	Thermal channel 50fps(1920 ×1080, 1280 × 960, 1280 × 720， 704×576， 640×512， 384×288) Optical channel 50Hz:25fps(2688 × 1520， 1920 × 1080, 1280 × 960, 1280 × 720) 60Hz:30fps(2688 × 1520， 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-stream	Thermal channel 50fps(704×576， 640×512， 384×288) Optical channel 50Hz:25fps(704 × 576, 352 × 288) 60Hz:30fps(704 × 576, 352 × 288)
Video Compression	Main stream: H.265+/H.265/H.264+/ H.264 Sub-stream: H.265/H.264/MJPEG

Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
Network Storage	MicroSD/SDHC/SDXC card (256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
API	SDK, third-party management platform, (ONVIF profile S,T,G)
Simultaneous Live View	Up to 20 channels
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Security	User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering
Web Browser	Live view (plug-in allowed) : Internet Explorer 11 Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 + Local service : Chrome 57.0+, Firefox 52.0 +
Interface	
Alarm Input	7-ch inputs (0-5 VDC)
Alarm Output	2-ch relay outputs, alarm response actions configurable
Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage
Audio Input	1, 3.5 mm Mic in/Line in interface. Line input: 2 - 2.4 V [p-p],
Audio Output	Linear Level; Impedance: 600 Ω
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface
Analog Video Output	1.0 V [p-p]/75 Ω
General	
Web Client Language	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Power Supply	24V AC ± 20%, 36V DC ± 20%, 48V DC ± 20%, Hi-PoE
Power Consumption	65W Max
Work Temperature/Humidity	From -40°C to 65°C (-40°F to 149°F); Humidity: 95% or less
Wiper	Yes
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Dimension	220 mm × 410 mm × 198.6 mm (8.66" × 16.15" × 7.82")
Weight	Approx. 9kg (19.84 lb)
Detection Range Table	
VCA Range for Humans	200 m
VCA Range for Vehicles	525 m
Heat Detection Distance	200 m

Smoke Detection	500 m (1 x1 m)
Approval	
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN50130-4: 2011+A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 7)
Safety	CB: IEC 62368-1: 2014+A11; CE-LVD: EN 62368-1: 2014/A11: 2017; BIS: IS 13252 (Part 1): 2010/ IEC 60950-1: 2005
Environment	CE-RoHS：2011/65/EU, WEEE: 2012/19/EU,
Protection	IP66: IEC 60529-2013
Anti-Corrosion Protection	C5