

HM-TD4167-25/WY Thermal and Optical Bi-spectrum Network Speed Dome





Hikmicro Thermal and Optical Bi-spectrum Network Speed Dome equipped with built-in GPU which sup ports intelligent perimeter protection algorithm, can realize high-precision VCA detection and real-time alarm. It is applied for perimeter protection and fire-prevention in critical infrastructures such as community, villa, construction site, factory, 4S stores, and so on . The pre-alarm system helps you discover unexpected events immediately and protects your property.

- Perimeter protection function, based on intelligent algorithm: line crossing, intrusion, region entrance and exit
- Temperature exception alarm for fire prevention
- 640 × 512 (the resolution of output image is 640 × 512) resolution 17 μ m, VOx UFPA, NETD \leq 40 mK (25 °C, F# = 1.1)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR
- High quality detector with 10 years guarantee
- Smart tracking: Panorama tracking, Event tracking and Multi-scene patrol tracking
- Thermal channel supports EIS, conflicted with intelligent function
- Fire and smoke detection algorithm
- Anti-corrosion coatings



Specification

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	×2, ×4, ×8				
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				
Image Effect					
Picture in Picture	Display partial image of thermal channel on the full screen of optical channel				
Target Coloration	Supported in white hot and black hot mode				
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				



Park	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame		
DT Otation	Scan/Panorama Scan Turn On/Turn Off		
PT Status			
Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output		
Illuminator			
IR Distance	Up to 150m		
IR Intensity and Angle	Automatically adjusted		
Smart 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.		
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	ISAPI, HIKVISION 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		



Client	iVMS-4200, Hik-Connect			
Web Browser	Live view (plug-in allowed) : Internet Explorer 11 Live view (plug-in free) :			
Web Blowsei	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], output impedance: 1 K Ω ± 10%			
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	175 m			
VCA Range for Vehicles	525 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			



1		CE-RoHS: 2011/65/EU,
	Environment	WEEE: 2012/19/EU,
		Reach: Regulation(EC) No 1907/2006
	Protection	IP66: IEC 60529-2013
	Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018)

Range Table

VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
525 m	175 m	585 m	295 m	1470 m	735 m

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Detection Range: In order to distinguish an object from the background, the image must be covered by 1.5 or more pixels.

Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the image must have at least 6 pixels across its critical dimension.

Identification Range: In order to identify the object and describe it in details, the critical dimension must have be least 12 pixels across

Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
2255 m	735 m	564 m	184 m	282 m	92 m

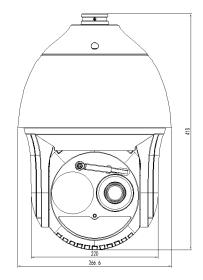
Available Model

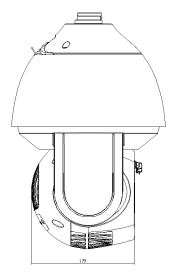
HM-TD4167-25/WY

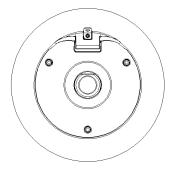
^{*} The table is only for reference and the performance may vary from camera to camera.



Dimension







Unit:mm

Accessory

Optional

DS-1603ZJ	DS-1604ZJ-box	DS-1602ZJ-Pole
Wall mount	Wall mount	Vertical pole mount

