

HM-TD4167-50/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

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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	50 mm			
Focus Mode	Athermalized			
IFOV	0.34 mrad			
Aperture	F1.0			
Field of View	12.4° × 9.9° (H × V)			
Min. Focusing Distance	50m			
Digital Zoom	×2, ×4, ×8			
Optical Module	ptical 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 Scan/Panorama Scan			
DT Status				
PT Status Turn On/Turn Off				



Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output					
Illuminator	r					
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					
'annu anatura Maaauramant	Support 3 temperature measurement rule types, 273 presets as scene, 21 rules					
Temperature Measurement	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						
	Thermal channel					
	50fps(1920 × 1080, 1280 × 960, 1280 × 720, 704×576, 640×512, 384×288)					
Main Stream	Optical channel					
Wall Stream	50Hz:25fps(2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)					
	60Hz:30fps(2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)					
	Thermal channel					
	50fps(704×576, 640×512, 384×288)					
Sub-stream	Optical channel					
	50Hz:25fps(704 × 576, 352 × 288)					
	60Hz:30fps(704 × 576, 352 × 288)					
Video Ocuenuccion	Main stream: H.265+/H.265/H.264+/ H.264					
Video Compression	Sub-stream: H.265/H.264/MJPEG					
Audio Compression	G .711u/G.711a/G.722.1/MP2L2/G.726/PCM					
Network						
Drotocolo	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS,					
Protocols	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),					
Network Storage	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					
Socurity	User authentication (ID and password), MAC address binding, HTTPS					
Security	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) :					
MEN DIOMPEI	Chrome 57.0 +, Firefox 52.0 + Local service : Chrome 57.0+, Firefox 52.0 +					
Interface						
Alarm Input	7-ch inputs (0-5 VDC)					
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Alarm Output	2-ch relay outputs, alarm response actions configurable
	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart
Alarm Action	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 KΩ ± 10%
Audio Output	Linear Level; Impedance: 600 Ω
Communication Interfere	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.
Communication Interface	1, RS-485 interface
Analog Video Output	1.0 V [p-p]/75 Ω
General	
	32 languages
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech,
Web Client Language	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
Drataction Lavel	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage
Protection Level	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	350 m
VCA Range for Vehicles	1050 m
Approval	
	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019,
EMC	EN50130-4: 2011+A1: 2014);
LIVIO	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,
	Reach: Regulation(EC) No 1907/2006
Protection	IP66: IEC 60529-2013
Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018)
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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)
1500 m	350 m	1170 m	590 m	2940 m	1470 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)
4510 m	1470 m	1127 m	368 m	564 m	184 m

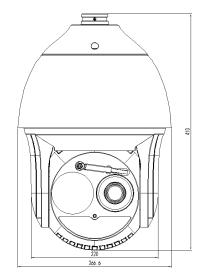
Available Model

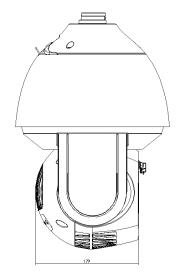
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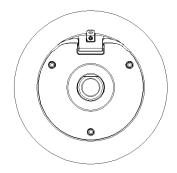
^{*} The table is only for reference and the performance may vary from camera to camera.



Dimension



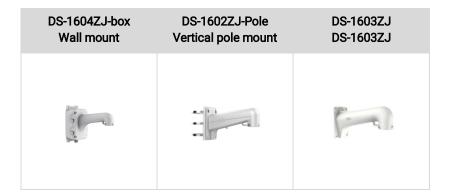




Unit:mm



- Accessory
- Optional



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