

HM-TD5537T-25/W Thermographic Thermal & Optical Bi-spectrum Network MINI Positioning System





HIKMICRO HM-TD5537T-25/W Thermographic Thermal & Optical Bi-spectrum Network MINI Positioning System equipped with built-in GPU which supports intelligent behavior analysis algorithm, can realize high-precision VCA detection and realtime alarm. It is applied to fire-prevention purposes in scenes such as transformer substation, recycling center, gas station, and factory. The pre-alarm system helps you discover unexpected events immediately and protects your property.

Key Feature

- Behavior analysis function, based on deep learning algorithm: line crossing, intrusion, region entrance & exit
- Temperature exception alarm for fire prevention
- Fire detection algorithm
- 384 × 288 resolution 17 μ m, VOx UFPA, NETD ≤ 35 mK (25°C, F# = 1.0)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR
- High quality detector with 10 years guarantee

Resolution 384 × 288 Pikel Pitch 17 µm Spectral Range 8 µm to 14 µm NETD > 35 mk (25°C, F# = 1.0) Focal Length 25 mm Focal Length 25 mm Focal Length 25 mm For V 0.68 mrad Aperture F1.0 Field of View 14.9° × 11.2° (H × V) Min. Focusing Distance 1.5 m Digital Zoom × 2, × 4, × 8 Optical Module Image Sensor I/2.8" Progressive Scan CMOS Resolution 2688 × 1520, 4 MP Min. Illumination Color: 0.05 Lux @ (F1.6, AGC ON), B/W: 0.01 Lux @ (F1.6, AGC ON) Field of View 58.4° x 332: (H × V) to 2.14° × 1.2° (H × V) Focal Length 4.8 to 153 mm, 32 × Aperture (Range) F1.2 to F4.4 Focus Mode Semi-auto, manual Digital Zoom × 2, × 4, × 8, × 16 Shutter Speed 1 s to 1/100,000 s WDR 120 dB Opticar In Picture Display partial image of thermal channel on the full screen of optical channel Target Coloration × 5. Supported in white hot and black hot mode. Pre Movement Range Pari: 360° Continuous Rotate; Tilit: From -90° to +90° (auto flip)	Specification					
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Picture in PictureDisplay partial image of thermal channel on the full screen of optical channelTarget ColorationYes. Supported in white hot and black hot mode.PTZMovement RangePan: 360° Continuous Rotate; Tilt: From -90° to +90° (auto flip)Pan SpeedConfigurable, From 0.5°/s to 90°/sTilt SpeedConfigurable, From 0.5°/s to 40°/sProportional ZoomYesPresets300Patrol Scan& patrols; Up to 32 presets per patrolPower Off MemoryYesParkPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPT StatusTurn On/Turn OffScheduled TaskPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux OutputIlluminatorUp to 30 m	Optical Defog	Yes				
Target ColorationYes. Supported in white hot and black hot mode.PTZMovement RangePan: 360° Continuous Rotate; Tilt: From -90° to +90° (auto flip)Pan SpeedConfigurable, From 0.5°/s to 90°/sTilt SpeedConfigurable, From 0.5°/s to 40°/sProportional ZoomYesPresets300Patrol Scan8 patrols; Up to 32 presets per patrolPower Off MemoryYesParkPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPT StatusTurn On/Turn OffScheduled TaskPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux OutputIluminatorUp to 30 m	Image Effect					
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Movement RangePan: 360° Continuous Rotate; Tilt: From -90° to +90° (auto flip)Pan SpeedConfigurable, From 0.5°/s to 90°/sTilt SpeedConfigurable, From 0.5°/s to 40°/sProportional ZoomYesPresets300Patrol Scan8 patrols; Up to 32 presets per patrolPower Off MemoryYesParkPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPT StatusTurn On/Turn OffPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux OutputIluminatorUp to 30 m	Target Coloration	Yes. Supported in white hot and black hot mode.				
Pan SpeedConfigurable, From 0.5°/s to 90°/sTilt SpeedConfigurable, From 0.5°/s to 40°/sProportional ZoomYesPresets300Patrol Scan& patrols; Up to 32 presets per patrolPower Off MemoryYesParkPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPT StatusTurn On/Turn OffScheduled TaskPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux OutputIlluminatorUp to 30 m						
Tilt SpeedConfigurable, From 0.5°/s to 40°/sProportional ZoomYesPresets300Patrol Scan8 patrols; Up to 32 presets per patrolPower Off MemoryYesParkPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPT StatusTurn On/Turn OffScheduled TaskPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux OutputIlluminatorUp to 30 m	Movement Range	Pan: 360° Continuous Rotate; Tilt: From -90° to +90° (auto flip)				
Proportional ZoomYesPresets300Patrol Scan8 patrols; Up to 32 presets per patrolPower Off MemoryYesParkPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPT StatusTurn On/Turn OffScheduled TaskPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux OutputIlluminatorUp to 30 m	Pan Speed	Configurable, From 0.5°/s to 90°/s				
Presets300Patrol Scan8 patrols; Up to 32 presets per patrolPower Off MemoryYesParkPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPT StatusTurn On/Turn OffScheduled TaskPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux OutputIlluminatorUp to 30 m	Tilt Speed	Configurable, From 0.5°/s to 40°/s				
Patrol Scan8 patrols; Up to 32 presets per patrolPower Off MemoryYesParkPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPT StatusTurn On/Turn OffScheduled TaskPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux OutputIlluminatorUp to 30 m	Proportional Zoom	Yes				
Power Off MemoryYesParkPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPT StatusTurn On/Turn OffScheduled TaskPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux OutputIlluminatorUp to 30 m	Presets	300				
ParkPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama ScanPT StatusTurn On/Turn OffScheduled TaskPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux OutputIlluminatorUp to 30 m	Patrol Scan	8 patrols; Up to 32 presets per patrol				
PT StatusTurn On/Turn OffScheduled TaskPreset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux OutputIlluminatorUp to 30 m	Power Off Memory	Yes				
Scheduled Task Preset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux Output Illuminator IR Distance Up to 30 m	Park	Preset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan				
Scheduled Task Scan/Dome Reboot/Dome Adjust/Aux Output Illuminator Up to 30 m	PT Status	Turn On/Turn Off				
Illuminator Up to 30 m	Cohodulad Task	Preset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama				
IR Distance Up to 30 m	Scheduled Task	Scan/Dome Reboot/Dome Adjust/Aux Output				
	Illuminator					
IR Intensity and Angle Automatically adjusted	IR Distance	Up to 30 m				
	IR Intensity and Angle	Automatically adjusted				



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Smart	Function	
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Smart Function						
VCA	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), 1					
-	scenes and 8 VCA rules for each scene.					
Temperature Measurement	3 temperature measurement rule types, 273 presets as scene, 21 rules of each s					
· · · · · · · · · · · · · · · · · · ·	(10 points, 10 areas, and 1 line)					
Temperature Range	-20°C to 550°C (-4°F to 1022°F)					
Temperature Accuracy	Max. (± 2°C, ± 2%)					
Fire Detection	Dynamic fire and smoke detection, up to 10 fire points and 10 smoke points					
	detectable.					
Video and Audio						
	Optical channel					
	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)					
Main Stream	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)					
	Thermal channel					
	50 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 512, 384 × 288)					
	Optical channel					
	50 Hz: 25fps (704 × 576, 352 × 288)					
Sub-stream	60 Hz: 30 fps (704 × 576, 352 × 288)					
	Thermal channel					
	50 fps (704 × 576, 640 × 512, 384 × 288)					
	Main stream: H.265+/H.265/H.264+/ H.264					
Video Compression	Sub-stream: H.265/H.264/MJPEG					
Audio Compression	G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/AAC/PCM					
Network						
	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP,					
Protocols	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE					
	MicroSD/SDHC/SDXC card (up to 128 GB) local storage, and NAS (NFS, SMB/CIFS					
Network Storage	network replenishment (ANR)					
	ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profil					
API	Profile T)					
Simultaneous Live View	Up to 20 channels					
User/Host level	Up to 32 users. 3 levels: administrator, operator, user					
,	User authentication (ID and Password), MAC address binding, HTTPS encryption,					
Security	802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering					
Client	iVMS-4200, Hik-Connect					
	Live view (plug-in allowed): Internet Explorer 11					
Web Browser	Live view (plug-in free): Chrome 57.0 +, Firefox 52.0 +					
Web Browser	Local service: Chrome 57.0 +, Firefox 52.0 +					
Interface						
	2 ch inputs (0 to F)/DC)					
Alarm Input	2-ch inputs (0 to 5 VDC)					
Alarm Output	2-ch relay outputs, alarm response actions configurable					
Alarm Action	Preset/patrol scan/SD card record/relay output/smart capture/FTP upload/emai					
	linkage					
Audio Input	1					



Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface.
communication interface	1, RS-485 interface
General	
	32 languages
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,
Menu Language	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	24 VDC
Power Consumption	20 W
Working Tomporature / Humidity	-40°C to 70°C (-40°F to 158°F)
Working Temperature/Humidity	90% or less
Wiper	Yes
Protection Level	IP67 Standard
	TVS 6000V lightning protection, surge protection, voltage transient protection
Dimensions	321 mm × 194 mm × 153 mm(12.64" × 7.64" × 6.02")
Weight	Approx. 4.8 kg (10.582 lb)



DRI Range Table

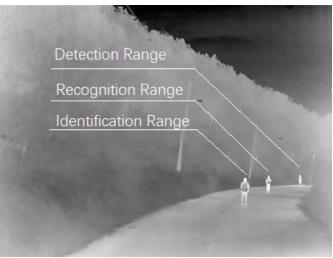
* The table is only for reference and the performance may vary according to different environment.

* The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria.

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

Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels.

Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.



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)
4. 0 mj	0.5 mg	1.4 ~ 4.0 mj	1.0 ~ 0.5 mg	1.4 ~ 4.0 m)	

Smart Function Table

* The table is only for reference and the performance may vary according to different environment.

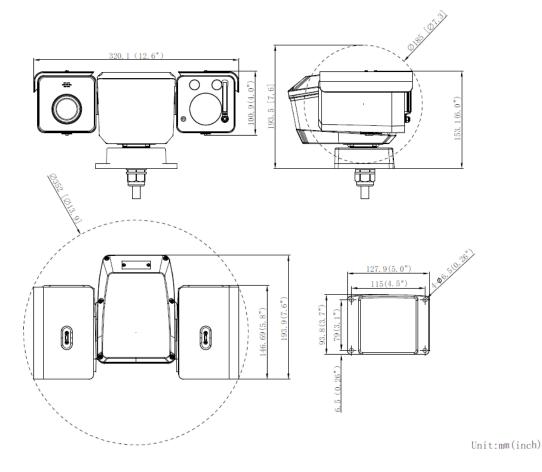
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
750 m	250 m	588 m	294 m	1471 m	735 m

Available Model

HM-TD5537T-25/W



Dimension



COMPLIANCE NOTICE: The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.





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