

HM-TD5537T-15/W Thermographic Thermal & Optical Bi-spectrum Network MINI Positioning System





HIKMICRO HM-TD5537T-15/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



Specification

Thermal Module					
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays				
Resolution	384 × 288				
Pixel Pitch	17 μm				
Spectral Range	8 μm to 14 μm				
NETD	≤ 35 mK (25°C, F# = 1.0)				
Focal Length	15 mm				
IFOV	1.13 mrad				
Aperture	F1.0				
Field of View	24.55° × 18.54° (H × V)				
Min. Focusing Distance	0.5 m				
Digital Zoom	× 2, × 4, × 8				
Optical Module					
Image Sensor	1/2.8" 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° × 33.8° (H × V) to 2.14° × 1.2° (H × V)				
Focal Length	4.8 mm 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				
Optical Defog	Yes				
Image Effect					
Picture in Picture	Display partial image of thermal channel on the full screen of optical channel				
Target Coloration	Yes. Supported in white hot and black hot mode.				
PTZ					
Movement Range	Pan: 360° Continuous Rotate; Tilt: From -90° to +90° (auto flip)				
Pan Speed	Configurable, From 0.5°/s to 90°/s				
Tilt Speed	Configurable, From 0.5°/s to 40°/s				
Proportional Zoom	Yes				
Presets	300				
Patrol Scan	8 patrols; Up to 32 presets per patrol				
Power Off Memory	Yes				
Park	Preset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan				
PT Status	Turn On/Turn Off				
	Preset/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama				
cheduled Task	Scan/Dome Reboot/Dome Adjust/Aux Output				
Illuminator					
IR Distance	Up to 30 m				
IR Intensity and Angle	Automatically adjusted				



Smart	Function	

Smart Function				
VCA	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), 10			
	scenes and 8 VCA rules for each scene.			
Temperature Measurement	3 temperature measurement rule types, 273 presets as scene, 21 rules of each scen			
-	(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			
·	G./IIalaw/G./IIulaw/G./22.1/G./20/WP2L2/AAC/PCW			
Network				
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RT			
	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE			
Network Storage	MicroSD/SDHC/SDXC card (up to 128 GB) local storage, and NAS (NFS, SMB/CIFS), a			
	network replenishment (ANR)			
API	ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profile G			
	Profile T)			
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, IE			
Jecunty	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 +			
	Local service: Chrome 57.0 +, Firefox 52.0 +			
Interface				
Alarm Input	2-ch inputs (0 to 5 VDC)			
Alarm Output	2-ch relay outputs, alarm response actions configurable			
-	Preset/patrol scan/SD card record/relay output/smart capture/FTP upload/email			
Alarm Action	linkage			
Audio Input	1			
Audio Input Audio Output				



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
Protection Level	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

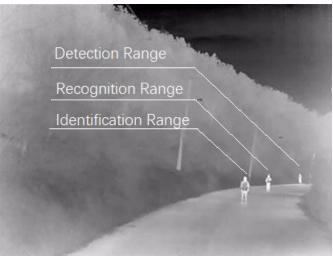
* The table is only for reference and the performance may vary according to different environment.

* 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)

Smart Function Table

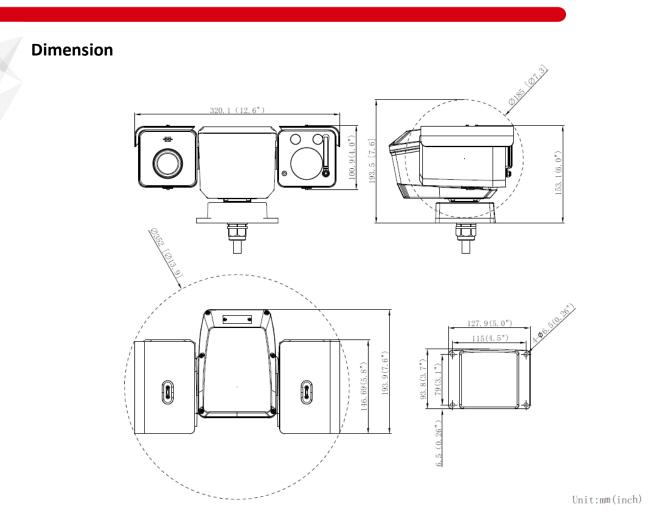
* The table is only for reference and the performance may vary according to different environment.

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)
450 m	150 m	353 m	176 m	882 m	441 m

Available Model

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