

HM-TD5528T-15/W

Thermographic Thermal & Optical Bi-spectrum Network MINI Positioning System





HIKMICRO HM-TD5528T-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 real-time 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
- 256 × 192 resolution 12 μ m, VOx UFPA, NETD \leq 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

Specification	
Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	256 × 192
Pixel Pitch	12 μm
Spectral Range	8 μm to 14 μm
NETD	≤ 35 mK (25°C, F# = 1.0)
Focal Length	15 mm
IFOV	0.8 mrad
Aperture	F1.0
Field of View	11.69° × 8.78° (H × V)
Min. Focusing Distance	2.5 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
Scheduled Task	Scan/Dome Reboot/Dome Adjust/Aux Output
Illuminator	
IR Distance	Up to 30 m
IR Intensity and Angle	Automatically adjusted



VCA scenes and 8 VCA rules for each scene. 1 a temperature Measurement all the properties of each scene. 2 a temperature measurement rule types, 273 presets as scene, 21 rules of each scene (10 points, 10 areas, and 1 line) 1 a temperature Range	Smart Function	
Secenes and 8 VCA rules for each scene.		4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), 10
Temperature Measurement (10 points, 10 areas, and 1 line)	VCA	scenes and 8 VCA rules for each scene.
(10 points, 10 areas, and 1 line)		3 temperature measurement rule types, 273 presets as scene, 21 rules of each scene
Temperature Accuracy	Temperature Measurement	(10 points, 10 areas, and 1 line)
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: 25 fps (704 × 576, 352 × 288) Sub-stream 60 Hz: 30 fps (704 × 576, 352 × 288) Thermal channel 50 fps (704 × 576, 640 × 512, 384 × 288) Video Compression Main stream: H.265/H.264/MJPEG Audio Compression G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/AAC/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 MicroSD/SDHC/SDXC card (up to 128 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) API Simultaneous Live View Up to 20 channels User/Host level Up to 32 users. 3 levels: administrator, operator, user User authentication (I0 and Password), MAC address binding, HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client 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 +	Temperature Range	-20°C to 550°C (-4°F to 1022°F)
Video and Audio	Temperature Accuracy	Max. (± 2°C, ± 2%)
Video and Audio		· · · · · · · · · · · · · · · · · · ·
Optical channel 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720) 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 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 512, 384 × 288) Optical channel 50 Hz: 25 fps (704 × 576, 352 × 288) Go Hz: 30 fps (704 × 576, 352 × 288) Thermal channel 50 fps (704 × 576, 640 × 512, 384 × 288) Optical channel 50 fps (704 × 576, 640 × 512, 384 × 288 Optical channel 50 fps (704 × 576, 640 × 512, 384 × 288 Optical channel 50 fps (704 × 576, 352 × 388 50 fps (704 × 576, 352 × 388	Fire Detection	
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Video Compression Main stream: H.265+/H.264/H.264 Sub-stream: H.265/H.264/MIPEG 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, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE MicroSD/SDHC/SDXC card (up to 128 GB) local storage, and NAS (NFS, SMB/CIFS), auto 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 User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client iVMS-4200, Hik-Connect 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 2-ch inputs (0 to 5 VDC)		Thermal channel
Sub-stream: H.265/H.264/MJPEG Audio Compression G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/AAC/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 (up to 128 GB) local storage, and NAS (NFS, SMB/CIFS), auto 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 User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client IVMS-4200, Hik-Connect 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 2-ch inputs (0 to 5 VDC)		50 fps (704 × 576, 640 × 512, 384 × 288)
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Protocols IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTCP, RTCP, UDP, IGMP, ICMP, DHCP, PPPoE MicroSD/SDHC/SDXC card (up to 128 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) 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 User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client iVMS-4200, Hik-Connect 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 + Local service: Chrome 57.0 +, Firefox 52.0 +	Audio Compression	G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/AAC/PCM
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User/Host level Up to 32 users. 3 levels: administrator, operator, user User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client iVMS-4200, Hik-Connect 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 2-ch inputs (0 to 5 VDC)	API	Profile T)
Security User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client iVMS-4200, Hik-Connect 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 2-ch inputs (0 to 5 VDC)	Simultaneous Live View	Up to 20 channels
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 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)	User/Host level	Up to 32 users. 3 levels: administrator, operator, user
802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering iVMS-4200, Hik-Connect 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 2-ch inputs (0 to 5 VDC)	Constitut	User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE
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)	Security	802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering
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)	Client	iVMS-4200, Hik-Connect
Local service: Chrome 57.0 +, Firefox 52.0 + Interface Alarm Input 2-ch inputs (0 to 5 VDC)		Live view (plug-in allowed): Internet Explorer 11
Interface Alarm Input 2-ch inputs (0 to 5 VDC)	Web Browser	Live view (plug-in free): Chrome 57.0 +, Firefox 52.0 +
Alarm Input 2-ch inputs (0 to 5 VDC)		Local service: Chrome 57.0 +, Firefox 52.0 +
	Interface	
Alarm Output 2-ch relay outputs, alarm response actions configurable	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	Preset/patrol scan/SD card record/relay output/smart capture/FTP upload/email
linkage		linkage
Audio Input 1	Audio Input	1
Audio Output 1	Audio Output	1



	Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface.
	Communication interface	1, RS-485 interface
	General	
	Menu 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	24 VDC
	Power Consumption	20 W
	Working Temperature/Humidity	-40°C to 70°C (-40°F to 158°F)
		90% or less
	Wiper	Yes
	Protection Level	IP67 Standard
		TVS 6000 V 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)



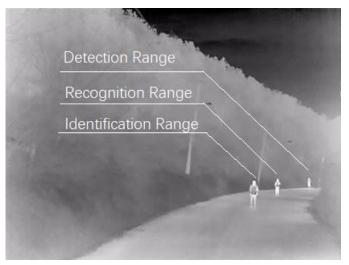
DRI Range Table

- * 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)
1917 m	625 m	479 m	156 m	240 m	

Smart Function Table

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

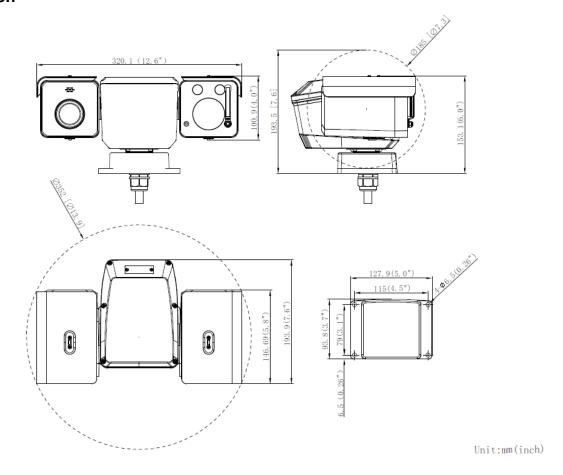
VCA Range (Vehicles: 4.0 m)	•	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
450 m	150 m	500 m	250 m	1250 m	625 m

Available Model

HM-TD5528T-15/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.



