

HM-TD5528T-10/W

Thermographic Thermal & Optical Bi-spectrum Network MINI Positioning





HIKMICRO HM-TD5528T-10/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 μm, 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	256 × 192
Pixel Pitch	12 μm
Spectral Range	8 μm to 14 μm
NETD	≤ 35 mK (25°C, F# = 1.0)
Focal Length	10 mm
IFOV	1.2 mrad
Aperture	F1.0
Field of View	17.46° × 13.14° (H × V)
Min. Focusing Distance	1.2 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
Cala a dula d Ta ale	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
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Smart Function	rt Function				
VCA	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), 10				
VCA	scenes and 8 VCA rules for each scene.				
To manage the man Management and	3 temperature measurement rule types, 273 presets as scene, 21 rules of each scene				
Temperature Measurement	(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				
Fire Detection	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)				
Video Compression	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					
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,				
FIOLOCOIS	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 Storage	network replenishment (ANR)				
API	ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profile G,				
All	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, IEEE				
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 +				
	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				
Alarm Action	Preset/patrol scan/SD card record/relay output/smart capture/FTP upload/email				
Alaim Action	linkage				
Audio Input	1				
Audio Output	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 Temperature/Humidity	-40°C to 70°C (-40°F to 158°F)
Working reimperature/fluilliaity	90% or less
Wiper	Yes
Protection Level	IP67 Standard
Frotection 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)



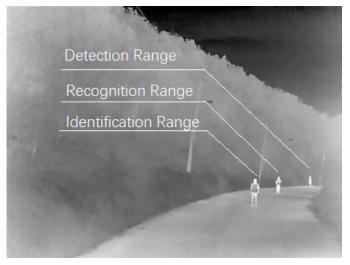
DRI Range Table

- * 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)
1278 m	417 m	319 m	104 m	160 m	52 m

Smart Function Table

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

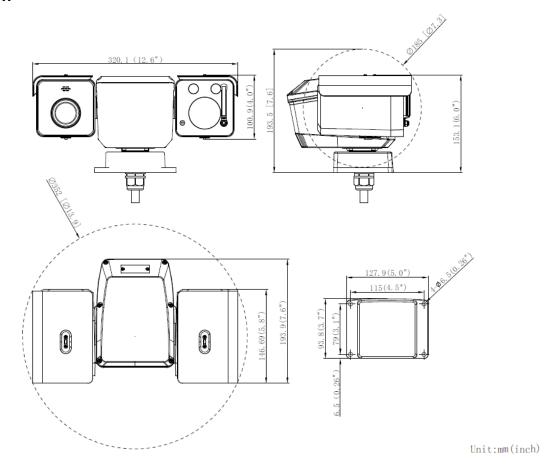
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
300 m	100 m	333 m	167 m	833 m	417 m

Available Model

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Dimension



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