

# HM-TD8167-100C4F/WY Thermal & Optical Bi-spectrum Network Stable PTZ



















HIKMICRO HM-TD8167-100C4F/WY Thermal & Optical Bi-spectrum Network Stable PTZ equipped with built-in GPU which supports intelligent perimeter protection algorithm, can realize high-precision VCA detection and real-time alarm. It is applied to perimeter protection scenes, such as airport, railway, farm, large parking lot. 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
- Temperature exception alarm for fire prevention
- Fire detection algorithm, Smoke detection algorithm
- 640 × 512 (the resolution of output image is 1920 × 1080) resolution 17 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
- NEMA-4X Standard
- High quality detector with 10 years guarantee
- Smart tracking: Panorama tracking, Event tracking and Multi-scene patrol tracking
- Smart tracking linkage: thermal view and optical view
- Thermal channel and optical channel supports EIS, conflicted with intelligent function
- Support vessel detection like dredger, fishing boat and ship flow detection



### - Specification

<ul> <li>Specification</li> <li>Thermal Module</li> </ul>						
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays					
Resolution	640 × 512 (the resolution of output image is 1920 × 1080)					
Pixel Interval	17 μm					
Response Waveband	8 μm to 14 μm					
NETD	Less than 35 mK (@25 °C,F#=1.0)					
Focal Length	100 mm					
Focus Mode	Semi-auto & Manual					
IFOV	0.17 mrad					
Aperture	F1.0					
Field of View	6.2° × 5° (H × V)					
Min. Focusing Distance	10 m					
Digital Zoom	×2, ×4, ×8					
Optical Module						
Image Sensor	1/1.8" Progressive Scan CMOS					
Resolution	2688 × 1520, 4 MP					
Min. Illumination	Color: 0.0005 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux @ (F1.5, AGC ON)					
Field of View	60° × 35.8° (H × V) to 1.2° × 0.7° (H × V)					
Focal Length	6 to 336 mm 56x					
Aperture (Range)	F1.36-F4.6					
Focus Mode	Semi-auto/Manual					
Shutter Speed	1s to 1/30,000 s					
WDR	120 dB					
Digital Zoom	×2, ×4, ×8, ×16					
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 -45° to + 45° (auto flip)					
Pan Speed	Configurable, From 0.01°/s to 40°/s, Preset Speed: 240°/s					
Tilt Speed	Configurable, From 0.01°/s to 20°/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					
LUIN	Scan/Panorama Scan					
PT Status	Turn On/Turn Off					
Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame					
20244.04 . 4010	Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output					



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			
Temperature Measurement	Support 3 temperature measurement rule types, 273 presets as scene, 21 rules 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 point detection, up to 10 fire points detectable.			
Video and Audio				
Main Stream	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 × 480, 384 × 288)			
Sub-stream	Optical channel 50 Hz:25 fps (704 × 576, 352 × 288) 60 Hz: 30 fps (704 × 576, 352 × 288) Thermal channel 50 fps (704 × 576, 640 × 480, 384 × 288)			
Video Compression	Main stream: H.265+/H.265/H.264+/ H.264 Sub-stream: H.265/H.264/MJPEG			
Audio Compression	G .711u/G.711a/G.722.1/MP2L2/G.726/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 256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)			
API ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Prof 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, 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) : Chrome 57.0 +, Firefox 52.0 + Local service : Chrome 57.0+, Firefox 52.0 +			
Interface				
Alarm Input	7-ch inputs (0-5 VDC)			
Alarm Output	2-ch relay outputs, alarm response actions configurable			
Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart 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 K $\Omega$ ± 10%			
Audio Output	Linear Level; Impedance: 600 Ω			
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface			



Analog Video Output	1.0 V [p-p]/75 Ω, BNC for thermal channel
General	
Web Client 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	48 VDC ± 20%, two-core terminal block
Power Consumption	Basic: <190 W; Max: <270W (Heater on)
Work Temperature/Humidity	From -40°C to 65°C (-40°F to 149°F); Humidity: 95% or Less
Wiper	Yes
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Dimension	559 mm × 379 mm × 646 mm (22.0 " × 14.9 " × 25.4 ")
Weight	Approx. 60 kg (132.3 lb)

#### 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)
2100 m	700 m	2353 m	1176 m	5882 m	2941 m

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

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.

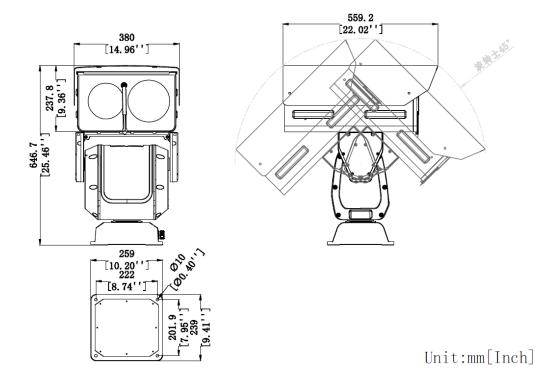
Identification Range: In order to identify the object and describe it in details, the critical dimension must have be least 12 pixels across

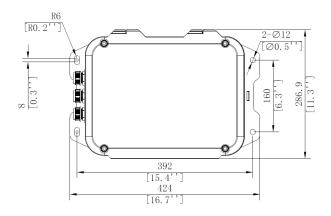
Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
9020 m	2941 m	2255 m	735 m	1127 m	368 m

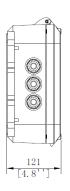


## Available Model HM-TD8167-100C4F/WY

#### Dimension







Unit:mm[Inch]

