

DS-2TD4167-50/W Thermal and Optical Bi-spectrum Network Speed Dome



Hikvision DS-2TD4167-50/W Thermal and Optical Bi-spectrum Network Speed Dome equipped with built-in GPU which supports intelligent behavior analysis algorithm, can realize high-precision VCA detection and real-time alarm. It is applied for perimeter defense and fire-prevention in critical infrastructures such as community, villa, construction site, factory, 4S stores, and so on. 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, and exit
- Fire detection algorithm
- Temperature exception alarm for fire prevention
- 640 × 512 (the resolution of output image is 640 × 512) resolution 17 μ m, VOx UFPA, NETD ≤ 40 mK (25°C, F# = 1.1)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DN
- 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 supports EIS, conflicted with intelligent function





Specification

mermanwoulle						
Image Sensor	VOx Uncooled Focal Plane Arrays					
Resolution	640 × 512					
Pixel Interval	17 μm					
Response Waveband	8 μm to 14 μm					
NETD	Less than 40 mK (25°C,F# = 1.0)					
Focal Length	50 mm					
Focus Mode	Athermalized					
IFOV	0.34 mrad					
Aperture	F1.0					
Field of View	12.4° × 9.9° (H × V)					
Min. Focusing Distance 50 m						
Digital Zoom	× 2, × 4, × 8					
Optical Module						
Image Sensor	1/1.8" Progressive Scan CMOS					
Resolution 2688 × 1520, 4 MP						
Min. Illumination	Color: 0.005 Lux @ (F1.3, AGC ON), B/W: 0.001 Lux @ (F1.3, AGC ON)					
Field of View	56.6° × 33.7° (H × V) to 1.8° ×1.0° (H × V)					
Focal Length 6 mm to 240 mm, 40x						
Aperture (Range)	F1.3 to F4.6					
Focus Mode	Semi-auto/Manual					
Digital Zoom	× 2, × 4, × 8, × 16					
Shutter Speed	1 s to 1/30,000 s					
WDR	120 dB					
ptical 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 -20° to +90° (auto flip)					
Pan Speed	Configurable, From 0.1°/s to 200°/s, Preset Speed: 240°/s					
Tilt Speed	Configurable, From 0.1°/s to 105°/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					
Devil	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame					
Park	Scan/Panorama Scan					
PT Status	Turn On/Turn Off					



Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame							
	Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output							
Illuminator								
IR Distance	Up to 150 m							
IR Intensity and Angle	Automatically adjusted							
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 MeasurementSupport 3 temperature measurement rule types, 273 presets as scene, 21 rules scene (10 points, 10 areas, and 1 line)								
Temperature Range	-20°C to 150°C (-4°F to 302°F)							
mperature Accuracy ± 8°C (± 14.4°F)								
Fire Detection	Dynamic fire detection, up to 10 fire points detectable.							
Smoking Detection	Support							
Video and Audio								
Main Stream	Thermal channel 50fps(1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 512, 384 × 288) Optical channel 50 Hz: 25fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)							
Sub-stream	Thermal channel 50 fps (704 × 576, 640 × 512, 384 × 288) Optical channel 50 Hz: 25 fps (704 × 576, 352 × 288) 60 Hz: 30 fps (704 × 576, 352 × 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 (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto							
ΑΡΙ	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, 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 VDC to 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 to 2.4 V [p-p], output impedance: 1 K Ω \pm 10%				
Audio Output	Linear Level; Impedance: 600 Ω				
Communication Interface1, 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	24 VAC ± 25%, 24 VDC, 48 VDC				
Power Consumption	24 VAC ± 25%: 5 A, Max. 60 W 24 VDC: 2.5 A, Max. 60 W 48 VDC: 1.25 V, Max. 60 W Hi-PoE (Max. 60 W)				
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	220 mm × 410 mm × 198.6 mm (8.66" × 16.15" × 7.82")				
Weight	Approx. 9 kg (19.84 lb)				



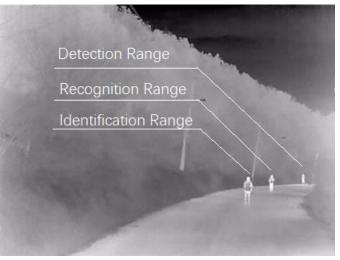
DRI Range Table

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

* The optimal human 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 (Vehicles: 1.4 ×	Detection Range (Humans: 1.8 ×	Recognition Range (Vehicles:	Recognition Range (Humans:	Identification Range (Vehicles:	Identification 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)
4510 m	1470 m	1127 m	368 m	564 m	184 m

Smart Function Table

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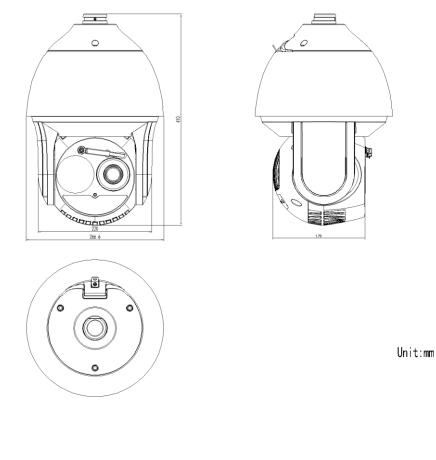
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
5000 m	500 m	1170 m	590 m	2940 m	1470 m

Available Model

DS-2TD4167-50/W



Dimension



Accessory Optional



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