

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

Thermal Module				
mage 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 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 -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			
Park	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan			
PT Status	Turn On/Turn Off			
r i Status	Turn Ony Turn On			



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 Measurement	Support 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)			
Temperature Accuracy	± 8°C (± 14.4°F)			
Fire Detection	Dynamic fire detection, up to 10 fire points detectable.			
Smoking Detection	Support			
Video and Audio				
	Thermal channel			
Main Stream	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			
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, 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: \pm 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	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)			



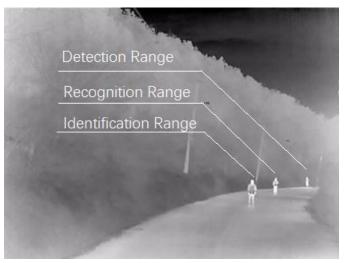
DRI Range Table

- * 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	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)
4510 m	1470 m	1127 m	368 m	564 m	184 m

Smart Function Table

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

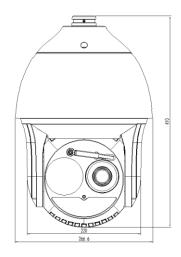
VCA Range (Vehicles: 1.4 ×	VCA Range (Humans: 1.8 ×	Temperature Measurement	Temperature Measurement	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
4.0 m)	0.5 m)	(Object: 2 × 2 m)	(Object: 1 × 1 m)		
1500 m	500 m	1170 m	590 m	2940 m	1470 m

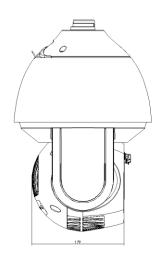
Available Model

DS-2TD4167-50/W, DS-2TD4167-50/W (B)



Dimension







Unit:mm

Accessory Optional







DS-1604ZJ-box

DS-1602ZJ-Pole Vertical Pole Mount

DS-1603ZJ

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



Distributed by

HIKVISION°

Headquarters

No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 overseasbusiness@hikvision.com

Hikvision USA T+1-909-895-0400 sales.usa@hikvision.com

Hikvision Australia T+61-2-8599-4233 salesau@hikvision.com

Hikvision India T+91-22-28469900 sales@pramahikvision.com

Hikvision Canada T+1-866-200-6690 sales.canada@hikvision.com

Hikvision Thailand T+662-275-9949 sales.thailand@hikvision.com Hikvision Europe T +31-23-5542770 sales.eu@hikvision.com

Hikvision Italy T +39-0438-6902 info.it@hikvision.com

Hikvision Brazil T +55 11 3318-0050 Latam.support@hikvision.com

Hikvision Turkey T +90 (216)521 7070- 7074 sales.tr@hikvision.com

Hikvision Malaysia T+601-7652-2413 sales.my@hikvision.com Hikvision UK & Ireland T +01628-902140 sales.uk@hikvision.com

Hikvision South Africa Tel: +27 (10) 0351172 sale.africa@hikvision.com

Hikvision France T +33(0)1-85-330-450 info.fr@hikvision.com

Hikvision Kazakhstan T +7-727-9730667 nikia.panfilov@hikvision.ru

Hikvision Vietnam T +84-974270888 sales.vt@hikvision.com Hikvision UAE T +971-4-4432090 salesme@hikvision.com

Hikvision Singapore T +65-6684-4718 sg@hikvision.com

Hikvision Spain T +34-91-737-16-55 info.es@hikvision.com

Hikvision Tashkent T +99-87-1238-9438 uzb@hikvision.ru

Hikvision Hong Kong T +852-2151-1761 info.hk@hikvision.com **Hikvision Russia** T +7-495-669-67-99 saleru@hikvision.com

Hikvision Korea T +82-{0}31-731-8817 sales.korea@hikvision.com

Hikvision Poland T +48-22-460-01-50 info.pl@hikvision.com

Hikvision Indonesia T+62-21-2933759 Sales.Indonesia@hikvision.com

Hikvision Colombia sales.colombia@hikvision.com