

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 perimeter protection algorithm, can realize high-precision VCA detection and real-time alarm. It is applied for perimeter protection 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

- Powerful perimeter protection functions, based on intelligent algorithm: Line crossing, intrusion, region entrance & 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

Thermai Module					
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	f 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	otical Defog Yes				
Image Effect					
Picture in Picture	Display partial image of thermal channel on the full screen of optical channel				
Target Coloration	arget Coloration Supported in white hot and black hot mode				
РТZ					
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				
Dark	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 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 $\pm 8^{\circ}C (\pm 14.4^{\circ}F)$						
Fire Detection						
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, Oos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,					
Network Storage	MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)					
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)					



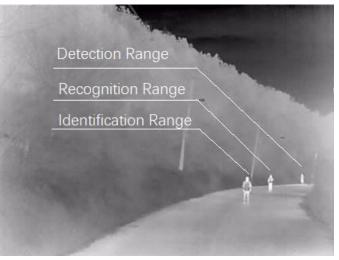
DRI Range Table

* 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

* 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)

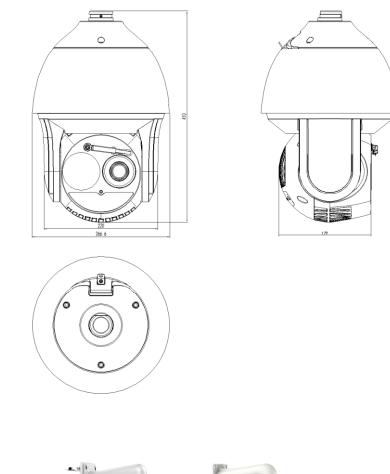
Available Model

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



Unit:mm

Dimension



Accessory Optional







DS-1604ZJ-box

DS-1602ZJ-Pole Vertical Pole Mount DS-1603ZJ

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