

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





Hikvision DS-2TD4167-50/WY Thermal and Optical Bi-spectrum Network Speed Dome equipped with built-in GPU which sup ports 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.

- Perimeter protection function, based on intelligent 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 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 supports EIS, conflicted with intelligent function
- Smoke detection for fire prevention



• Specification

Thermal 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	12.4° × 9.9° (H × V)					
Min. Focusing Distance	50m					
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)~1.8° ×1.0° (H × V)					
Focal Length	6-240 mm, 40x					
Aperture (Range)	F1.3-F4.6					
Focus Mode	Auto/Semi-auto/Manual					
Digital Zoom	×2, ×4, ×8, ×16					
Shutter Speed	1s to 1/30,000s					
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					
DT Chabina	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 150m					
IR Intensity and Angle	Automatically adjusted					
Smart Function	· · · ·					
VCA	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region					
VCA	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					
remperature Measurement	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.					
Video and Audio						
	Thermal channel					
	50fps(1920 × 1080, 1280 × 960, 1280 × 720, 704×576, 640×512, 384×288)					
Main Stream	Optical channel					
	50Hz:25fps(2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)					
	60Hz:30fps(2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)					
	00112.301p3(2000 × 1320 × 1000, 1200 × 300, 1200 × 720)					
	Thermal channel 50fps(704×576, 640×512,					
	384×288)					
Sub-stream	Optical channel					
	50Hz:25fps(704 × 576, 352 × 288)					
	60Hz:30fps(704 × 576, 352 × 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 .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 G) local storage, and NAS (NFS, SMB/CIFS), auto					
_	network replenishment (ANR)					
API	ISAPI, HIKVISION SDK, third-party management platform, ONVIF profile S,T,G)					
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					
Climat	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	+, Filelox 32.0 + Local Service . Cilionie 37.0+, Filelox 32.0 +					
Alarm Input	7-ch inputs (0-5 VDC)					
Alarm Output	2-ch relay outputs, alarm response actions configurable					
Output	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP					
Alarm Action	upload/Email linkage					
	1, 3.5 mm Mic in/Line in interface. Line input: 2 - 2.4 V [p-p], output impedance: 1 K Ω ±					
Audio Input	10%					



Audio Output	Linear Level; Impedance: 600Ω			
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.			
Communication interface	1, RS-485 interface			
Analog Video Output	1.0 V [p-p]/75 Ω , BNC for thermal channel			
General				
	32 languages			
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,			
Web Client 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	24V AC ± 20%, 36V DC ± 20%, 48V DC ± 20%			
Power Consumption	65W Max			
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 Level	Protection			
Dimension	220 mm × 410 mm × 198.6 mm (8.66" × 16.15" × 7.82")			
Weight	ght Approx. 9kg (19.84 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)
1500 m	350 m	1170 m	590 m	2940 m	1470 m

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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	Detection	Recognition	Recognition	Identification	Identification
Range	Range	Range	Range	Range	Range
(Vehicles: 1.4 ×	(Humans: 1.8 ×	(Vehicles: 1.4 ×	(Humans: 1.8 ×	(Vehicles: 1.4 ×	(Humans: 1.8 ×
4.0 m)	0.5 m)	4.0 m)	0.5 m)	4.0 m)	0.5 m)
4510 m	1470 m	1127 m	368 m	564 m	184 m

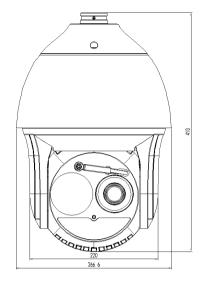
Available Model

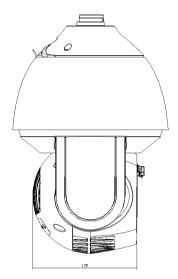
DS-2TD4167-50/WY DS-2TD4167-50/WY(B)

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



Dimension







Unit:mm

Accessory

Optional



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.