

DS-2TD4167-25/WY Thermal and Optical Bi-spectrum Network Speed Dome



Hikvision DS-2TD4167-25/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
- Temperature exception alarm for fire prevention
- Fire detection algorithm
- 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	25 mm						
Focus Mode	Athermalized						
IFOV	0.68 mrad						
Aperture	F1.0						
Field of View	24.5° × 19.7° (H × V)						
Min. Focusing Distance	13m						
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 Scan/Panorama Scan						
PT Status	Turn On/Turn Off						



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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					
	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 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)					
	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)					
	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						
	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS,					
Protocols	NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE					
Natural Otana a	MicroSD/SDHC/SDXC card (256 G) local storage, and NAS (NFS, SMB/CIFS),					
Network Storage	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					
Socurity	User authentication (ID and password), MAC address binding, HTTPS					
Security	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 KΩ ± 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				
General					
	32 languages				
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech,				
Web Client Language	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	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				
Protection Level	Transient Protection				
Dimension	220 mm × 410 mm × 198.6 mm (8.66" × 16.15" × 7.82")				
Weight	Approx. 9kg (19.84 lb)				
Detection Range Table					
VCA Range for Humans	175 m				
VCA Range for Vehicles	525 m				

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)
525 m	175 m	585 m	295 m	1470 m	735 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.

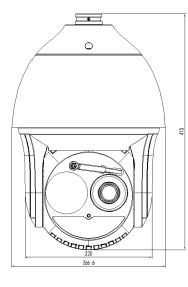
Identification Range: In order to identify the object and describe it in details, the critical dimension must have be least 12 pixels across

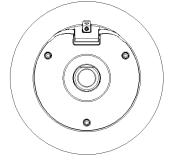
Detection Range (Vehicles: 1.4 ×	Detection Range (Humans: 1.8 ×	Recognition Range (Vehicles:	Recognition Range (Humans:	Identification Range (Vehicles:	Identification Range (Humans:
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
2255 m	735 m	564 m	184 m	282 m	92 m

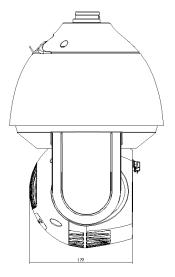
Available Model

DS-2TD4167-25/WY DS-2TD4167-25/WY(B)

Dimension







Unit:mm



Accessory

Optional



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