

DS-2TD4167T-25/W

Thermographic Thermal & Optical Bi-spectrum Network Speed Dome



















Hikvision DS-2TD4167T-25/W Thermographic Thermal & Optical Bi-spectrum Network Speed Dome is applied to manufacture process supervision of pyrophoric materials in factories, electric substation, and hydropower station. The accurate temperature measurement system sends you alarms to protect you from property loss.

- Perimeter protection function, based on deep learning algorithm: line crossing, intrusion, region entrance and exit
- Temperature exception alarm for fire prevention
- 640× 512 (the resolution of output image is 1920 × 1080) resolution 17 μm, VOx UFPA, NETD ≤ 35 mK (25 °C, F# = 1.1)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR
- High quality detector with 10 years guarantee
- Smart tracking: Panorama tracking, Event tracking and Multi-scene patrol tracking
- Thermal channel supports EIS, conflicted with intelligent function
- Fire and smoke detection algorithm



- Specification

Thermal Module			
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays		
Resolution	640 × 512 (the resolution of output image is 1920 × 1080)		
Pixel Interval	17 μm		
Response Waveband	8 μm to 14 μm		
NETD	≤35 mK (@25°C,F#=1.1)		
Focal Length	25 mm		
Focus Mode	Semi-auto & Manual		
IFOV	0.68 mrad		
Aperture	F1.0		
Field of View	24.5 ° × 19.7 ° (H × V)		
Min. Focusing Distance	1.5 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	6-240 mm, 40x		
Aperture (Range)	F1.3-F4.6		
Focus Mode	Auto/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		



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 200 m
IR Intensity and Angle	Automatically adjusted
Smart Function	
VCA Temperature Measurement	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region
	Exiting), up to 10 scenes and 8 VCA rules for each scene
	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 550° C (- 4° F to 1022° F)
Temperature Accuracy	Max (± 2° C, ± 2 %)
Fire Detection	Dynamic fire detection, up to 10 fire points detectable.
Video and Audio	
	Optical channel
	50 Hz:25 fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)
Main Stream	60 Hz:30 fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)
	Thermal channel
	50 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 512, 384 × 288)
	Optical channel
	50 Hz:25 fps (704 × 576, 352 × 288)
Sub-stream	60 Hz:30 fps (704 × 576, 352 × 288)
	Thermal channel
	50 fps (704 × 576, 640 × 512, 384 × 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	
D	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS,
Protocols	NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
N. I. O.	MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS,
Network Storage	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
Occupitor	User authentication (ID and password), MAC address binding, HTTPS
Security	encryption, IEEE 802.1x access control, IP address filtering
Client	iVMS-4200, Hik-Connect
	Live view (plug-in allowed) : Internet Explorer 11
Web Browser	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: $1~\rm K\Omega~\pm~10\%$			
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			
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	24V AC ± 20%, 36V DC ± 20%, 48V DC ± 20%, Hi-PoE			
Power Consumption	65W Max			
Working	From - 40° C to 65° C (- 40° F to 149° F)			
Temperature/Humidity	95% or less			
Wiper	Yes			
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection			
Dimension	266.6 mm × 410 mm × 198.6 mm (10.5" × 16.15" × 7.82")			
Weight	Approx. 9 kg (19.84 lb)			
Detection Range Table				
VCA Range for Humans	175 m			
VCA Range for Vehicles	525 m			
Approval				
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN50130-4: 2011+A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 7)			
Safety	CB: IEC 62368-1: 2014+A11; CE-LVD: EN 62368-1: 2014/A11: 2017; BIS: IS 13252 (Part 1): 2010/ IEC 60950-1: 2005			
	CE-RoHS: 2011/65/EU,			
Environment	WEEE: 2012/19/EU,			
	Reach: Regulation(EC) No 1907/2006			
Protection	IP66: IEC 60529-2013			



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)
				1470 m	735 m

DORI

* 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.

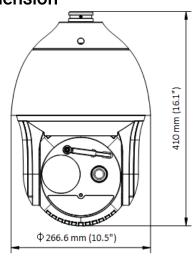
Identification Range: In order to identify the object and describe it in details, the critical dimension must have be least 12 pixels across

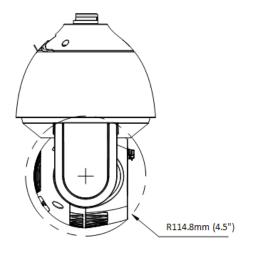
Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
2255 m	735 m	564 m	184 m	282 m	92 m

Available Model

DS-2TD4167T-25/W DS-2TD4167T-25/W(B)

Dimension







Accessory

Optional

DS-1603ZJ	DS-1604ZJ-box	DS-1602ZJ-Pole
Wall mount	Wall mount	Vertical pole mount

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.

Headquarters

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

Follow us on social media to get the latest product and solution information.













