

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.

Key Feature

- Behavior analysis function, based on deep learning 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 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
- Smart tracking linkage: thermal view and optical view
- Thermal channel supports EIS, conflicted with intelligent function





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	, vj, vj, vj
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
Shutter Speed	1 s to 1/30,000 s
WDR	120 dB
Optical Defog	Yes
mage 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	Supported in write not and black not mode
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: 240°/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
·	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame
Park	Scan/Panorama Scan
PT Status	Turn On/Turn Off
	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame
Scheduled Task	Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output
Illuminator	
IR Distance	Up to 200 m
IR Intensity and Angle	Automatically adjusted
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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
Tomporature Measurement	Support 3 temperature measurement rule types, 273 presets as scene, 21 rules of each
Temperature Measurement	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.
Smoking Detection	Support
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)
\".\ C	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
Native als Chauses	MicroSD/SDHC/SDXC card (up to 256 GB) local storage, and NAS (NFS, SMB/CIFS), auto
Network Storage	network replenishment (ANR)
ADI	ISAPI, HIKVISION SDK, third-party management platform, Open Network Video
API	Interface (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
Consuits	User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE
Security	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 VDC to 5 VDC)
Alarm Output	2-ch relay outputs, alarm response actions configurable
Alarm Astic	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart Capture/FTP
Alarm Action	Upload/Email linkage
Audio Innut	1, 3.5 mm Mic in/Line in interface. Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω
Audio Input	± 10%
Audio Output	Linear Level; Impedance: $600~\Omega$



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	24 VAC ± 25%, 24 VDC, 48 VDC
	24 VAC ± 25%: 5 A, Max. 60 W
Power Consumption	24 VDC: 2.5 A, Max. 60 W
	48 VDC: 1.25 V, Max. 60 W
	Hi-PoE (Max. 60 W)
Working Temperature/Humidity	From -40°C to 65°C (-40°F to 149°F)
working remperature/riuminity	95% or less
Wiper	Yes
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient
FIOLECTION LEVEL	Protection
Dimension	266.6 mm × 410 mm × 198.6 mm (10.5" × 16.15" × 7.82")
Weight	Approx. 9 kg (19.84 lb)



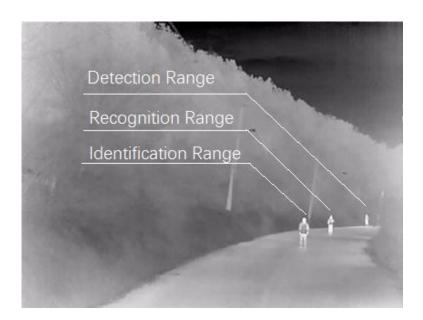
DRI Range Table

- * The table is only for reference and the performance may vary from camera to camera.
- * 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)
2255 m	735 m	564 m	184 m	282 m	92 m

Smart Function Table

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

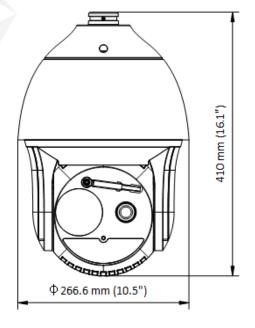
VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Fire Detection
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Measurement	Measurement	(Object: 2 × 2 m)	(Object: 1 × 1 m)
	、	(0): 1 2 2 3	(0): 1 4 4 1		
4.0 m)	0.5 m)	(Object: 2 × 2 m)	(Object: 1 × 1 m)		

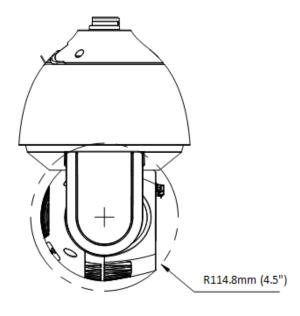
Available Model

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



Dimension





Accessory

Optional







DS-1602ZJ-Pole Vertical pole mount



DS-1604ZJ-box

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