

DS-2TD4167T-9/W

Thermographic Thermal & Optical Bi-spectrum Network Speed Dome

















Hikvision DS-2TD4167T-9/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.

- 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
- Smoke detection for fire prevention



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# = 1.0)		
Focal Length	9 mm		
Focus Mode	Athermalized		
IFOV	1.89 mrad		
Aperture	F1.0		
Field of View	72.0 ° x56.1 °(H × V)		
Min. Focusing Distance	1 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		
. u.r.	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	Augic Automatically dajusted		
	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region		
CA	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		
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.		
Video and Audio	2) Talling the accession, up to 25 ma points accessions.		
	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)		
Jub Stream	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			
IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, I			
Protocols	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE		
	MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto		
Network Storage	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		
0361/11031 16461	User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE		
Security	802.1x access control, IP address filtering		
Client	iVMS-4200, Hik-Connect		
Cilent	Live view (plug-in allowed) : Internet Explorer 11		
Web Browser	Live view (plug-in free): Chrome 57.0 +, Firefox 52.0 +		
Web blowser	Local service : Chrome 57.0 +, Firefox 52.0 +		
Interface	Local Service : Cilionie 37.0 +, Filelox 32.0 +		
	7 ch inputs (0 E VDC)		
Alarm Output	7-ch inputs (0-5 VDC)		
Alarm Output	2-ch relay outputs, alarm response actions configurable Procet/Patrol Scan/Patron Scan/SD Cord Record/Polay Output/Smart conture/ETD		
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 K Ω ±		
	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	24V AC ± 20%, 36V DC ± 20%, 48V DC ± 20%		
Power Consumption	65W Max		
Working Temperature/Humidity	From - 40° C to 65° C (- 40° F to 149° F);		
working reinperactive/mumuity	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)		

• 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)
189 m	63 m	212 m	106 m	529 m	265 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)
812 m	265 m	203 m	66 m	101 m	

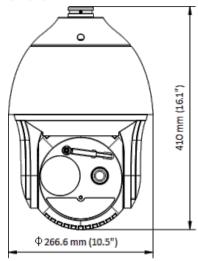
Available Model

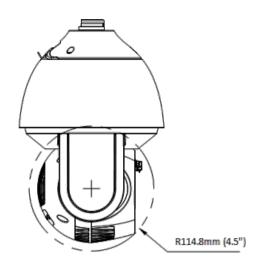
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^{*} The table is only for reference and the performance may vary from camera to camera.



Dimension





Accessory

Optional

DS-1603ZJ	DS-1602ZJ-Pole	DS-1604ZJ-box	
Wall Mount	Vertical pole mount	Wall Mount	
		70 70	

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.