

### **DS-2TD4137T-9/W**

Thermographic Thermal & Optical Bi-spectrum Network Speed Dome

















Hikvision DS-2TD4137T-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.

#### **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
- 384 × 288 (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

opecification nermal Module						
mage Sensor	Vanadium Oxide Uncooled Focal Plane Arrays					
Resolution	384 × 288 (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					
FOV	1.89 mrad					
Aperture	F1.0					
Field of View	37.9° x28.7° (H × V)					
Min. Focusing Distance	1 m					
Digital Zoom	× 2, × 4, × 8					
Optical Module	. // 2112					
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					
Digital Zoom	$\times$ 2, $\times$ 4, $\times$ 8, $\times$ 16					
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						
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					
·	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					
Distance	GP 10 200 III					



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
Tomporatura Maacuramant	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
Sub-stream	50 Hz:25 fps (704 × 576, 352 × 288)
	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	G.7114/ G.7114/ G.722.1/Wil 2021/ G.720/1 GW
THE COUNTY OF TH	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,
Protocols	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
	MicroSD/SDHC/SDXC card (up to 256 GB) local storage, and NAS (NFS, SMB/CIFS), auto
Network Storage	network replenishment (ANR)
	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
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User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Security	User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE
Client	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 Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP
- ···· · <del> ·</del> ··	upload/Email linkage
	1, 3.5 mm Mic in/Line in interface. Line input: 2 to 2.4 V [p-p], output impedance: 1 KΩ
Audio Input	



Audio Output	Linear Level; Impedance: $600 \Omega$
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, 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: 1.25V, Max. 60 W
	Hi-PoE (Max. 60 W)
Working Temperature/Humidity	From -40°C to 65°C (-40°F to 149°F);
	95% or less
Wiper	Yes
Dueto etie a Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient
Protection Level	Protection
Dimension	266.6 mm × 410 mm × 198.6 mm (10.5" × 16.15" × 7.82")
Weight	Approx. 9 kg (19.84 lb)



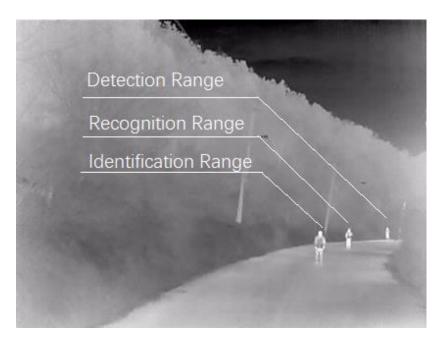
## DRI Range Table

- \* 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.



<b>Detection Range</b>	<b>Detection Range</b>	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)
812 m	265 m	203 m	66 m	101 m	33 m

### Smart Function Table

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

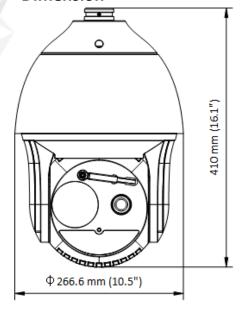
VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Fire Detection
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Measurement	Measurement	(Object: 2 × 2 m)	(Object: 1 × 1 m)
4.0 m)	0.5 m)	(Object: 2 × 2 m)	(Object: 1 × 1 m)		
185 m	66 m	212 m	106 m	529 m	265 m

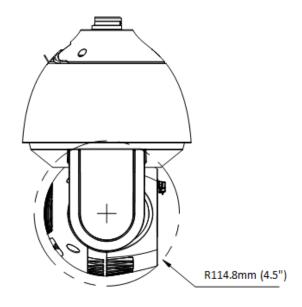
## Available Model

DS-2TD4137T-9/W, DS-2TD4137T-9/W (B)



### Dimension





- Accessory
- Optional



DS-1603ZJ



DS-1604ZJ-box



DS-1602ZJ-Pole 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.



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