

DS-2TD4137T-25/W Thermographic Thermal & Optical Bi-spectrum Network Speed Dome



Hikvision DS-2TD4137T-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.

VISION

#### **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  $\mu$ m, VOx UFPA, NETD ≤ 35 mK (25° C, F# = 1.1)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR





# Specification

Thermal						
Image 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	25 mm					
Focus Mode	Semi-auto & Manual					
IFOV	0.68 mrad					
Aperture	F1.0					
Field of View	14.9 ° × 11.2 ° (H × V)					
Min. Focusing Distance	1.5 m					
Digital Zoom	×2, ×4, ×8, ×16					
Optical						
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					
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					
Dark	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame					
Park	Scan/Panorama Scan					
PT Status	Turn On/Turn Off					
Cabadulad Taali	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					
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 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						
Main Stream	Optical channel 50 Hz:25 fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz:30 fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720) Thermal channel 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 512, 384 × 288)					
Sub-stream	Optical channel 50 Hz:25 fps (704 × 576, 352 × 288) 60 Hz:30 fps (704 × 576, 352 × 288) Thermal channel 25 fps (704 × 576, 640 × 512, 384 × 288)					
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 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					
Network Storage	MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)					
ΑΡΙ	ISAPI, HIKVISION SDK, third-party management platform, ONVIF (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					
Security	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), 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 K $\Omega$ $\pm$ 10%					
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 $\Omega$ , BNC for thermal channel					
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	24 VAC ± 25%					
Dower Consumption	24 VAC ± 25%: 5 A, max. 60 W					
Power Consumption	Hi-PoE (Max. 60 W)					
Mork Tomporaturo / Iumiditu	- 40° C to 65° C (- 40° F to 149° F)					
Work 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)					

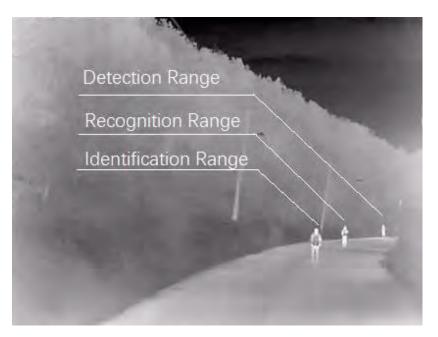
### DRI Range Table

\* 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

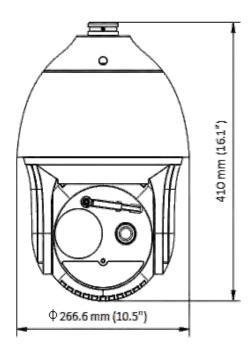
\* The table is only for reference and the performance may vary according to different environment.

VCA Range (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)
515 m	184 m	588 m	294 m	1471 m	735 m

## Available Model

DS-2TD4137T-25/W

# Dimension



0

R114.8mm (4.5")

Accessory

#### Included



DS-1602ZJ Wall mount



DS-1602ZJ-Pole Vertical pole mount



DS-1604ZJ-box



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.



Distributed by

Г

HIKVISION'

#### Headquarters

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

Hikvision USA T+1-909-895-0400 sales.usa@hikvision.com

Hikvision Australia T +61-2-8599-4233 salesau@hikvision.com

Hikvision India T +91-22-28469900 sales@pramahikvision.com

Hikvision Canada T +1-866-200-6690 sales.canada@hikvision.com

Hikvision Thailand T +662-275-9949 sales.thailand@hikvision.com Hikvision Europe T +31-23-5542770 sales.eu@hikvision.com

Hikvision Italy T +39-0438-6902

info.it@hikvision.com Hikvision Brazil T +55 11 3318-0050 Latam.support@hikvision.com

Hikvisión Turkey T +90 (216)521 7070- 7074 sales.tr@hikvision.com

Hikvision Malaysia T +601-7652-2413 sales.my@hikvision.com Hikvision UK & Ireland T +01628-902140 sales.uk@hikvision.com

Hikvision South Africa Tel: +27 (10) 0351172 sale.africa@hikvision.com

Hikvision France T +33[0]1-85-330-450 info.fr@hikvision.com

Hikvision Kazakhstan T +7-727-9730667 nikia.panfilov@hikvision.ru

Hikvision Vietnam T +84-974270888 sales.vt@hikvision.com HIkvision UAE T +971-4-4432090 salesme@hikvision.com

Hikvision Singapore T+65-6684-4718

sg@hikvision.com Hikvision Spain

T +34-91-737-16-55 info.es@hikvision.com

Hikvision Tashkent T +99-87-1238-9438 uzb@hikvision.ru

Hikvision Hong Kong T +852-2151-1761 info.hk@hikvision.com Hikvision Russla T +7-495-669-67-99 saleru@hikvision.com

Hikvision Korea T +82-(0)31-731-8817 sales.korea@hikvision.com

Hikvision Poland T +48-22-460-01-50 into.pl@hikvision.com

Hikvision Indonesia T +62-21-2933759 Sales.Indonesia@hikvision.com

Hikvision Colombia sales.colombia@hikvision.com

© Hikvision Digital Technology Co., Ltd. 2020 | Data subject to change without notice |