

### **DS-2TD4137-25/WY**

Anti-corrosion Thermal and Optical Bi-spectrum Network Speed Dome









Hikvision DS-2TD4137-25/WY Anti-corrosion Thermal and Optical Bi-spectrum Network Speed Dome equipped with built-in GPU which supports intelligent perimeter protection algorithm, can realize high-precision VCA detection and real-time alarm. It is applied for perimeter protection and fire-prevention in critical infrastructures such as community, villa, construction site, factory, 4S stores, and so on. The pre-alarm system helps you discover unexpected events immediately and protects your property.

#### **Key Feature**

- Perimeter protection function, based on intelligent algorithm: line crossing, intrusion, region entrance, and exit
- Temperature exception alarm for fire prevention
- Fire detection algorithm
- $384 \times 288$  (the resolution of output image is  $384 \times 288$ ) resolution 17 µm, VOx UFPA, NETD  $\leq 40$  mK (25°C, F# = 1.1)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR
- **NEMA-4X Standard**
- 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	384 × 288
Pixel Interval	17 μm
Response Waveband	8 μm to 14 μm
NETD	Less than 40 mK (@ 25°C,F# = 1.0)
Focal Length	25 mm
Focus Mode	Athermalized
IFOV	0.68 mrad
Aperture	F1.0
Field of View	14.9° × 11.2° (H × V)
Min. Focusing Distance	13 m
Aperture	F1.0
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 mm to 240 mm, 40x
Aperture (Range)	F1.3 to F4.6
Focus Mode	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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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
	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 150 m				
IR Intensity and Angle	Automatically adjusted				
Smart Function					
VCA (Video Content Analysis)	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 150°C (-4°F to 302°F)				
Temperature Accuracy	± 8°C (± 14.4°F)				
Fire Detection	Dynamic fire detection, up to 10 fire points detectable.				
Smoking Detection	Support				
Video and Audio					
Main Stream	Thermal channel 50 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 512, 384 × 288) 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)				
Sub-stream	Thermal channel 50 fps (704 × 576, 640 × 512, 384 × 288) Optical channel 50 Hz: 25 fps (704 × 576, 352 × 288) 60 Hz: 30fps (704 × 576, 352 × 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 (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)				
API	ISAPI, HIKVISION SDK, third-party management platform, Open Network Video 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				
Security	User authentication (ID and Password), 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 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 upload/Email linkage					
Audio Input	1, 3.5 mm Mic in/Line in interface. Line input: 2 to 2.4 V [p-p], output impedance: 1 K $\pm$ 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 $\Omega$ , 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%, 24 VDC, 48 VDC					
Power Consumption	24 VAC ± 25%: 5 A, Max. 60 W 24 VDC: 2.5 A, Max. 60 W 48 VDC: 1.25 V, Max. 60 W Hi-PoE (Max. 60 W)					
Work Temperature/Humidity	From -40°C to 65°C (-40°F to 149°F); Humidity: 95% or Less					
Wiper	Yes					
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection					
Dimension	220 mm × 410 mm × 198.6 mm (8.66" × 16.15" × 7.82")					
Weight	Approx. 9kg (19.84 lb)					



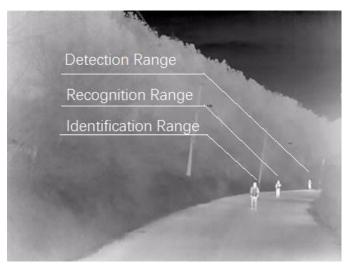
## **DRI Range Table**

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

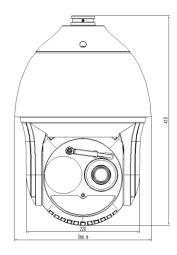
VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Fire Detection
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Measurement	Measurement	(Object: 2 × 2 m)	(Object: 1 × 1 m)
4.0 m)	0.5 m)	(Object: 2 × 2 m)	(Object: 1 × 1 m)		
4.0 111)	0.5 111)	(Object. 2 × 2 III)	(Object. 1 × 1 III)		

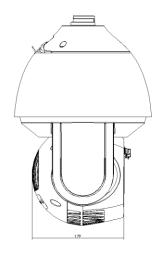
# **Available Model**

DS-2TD4137-25/WY, DS-2TD4137-25/WY (B)



## **Dimension**



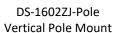




Unit:mm

# Accessory Optional







DS-1603ZJ



DS-1604ZJ-box

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# *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

**Hikvision 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 Russia** 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 info.pl@hikvision.com

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

Hikvision Colombia sales.colombia@hikvision.com