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DS-2TD4137-25/W
Thermal and Optical Bi-Spectrum Network Speed Dome

Hikvision's DS-2TD4137-25/W Thermal and Optical Bi-Spectrum Network Speed Dome is equipped with a built-in GPU that supports an intelligent behavior analysis algorithm. It can realize high-precision VCA detection and real-time alarms. It is used for perimeter defense and fire-prevention in critical infrastructures such as railways, airports, parking lots, factories, etc. The pre-alarm system helps you discover unexpected events immediately and protects your property.

Available Model
DS-2TD4137-25/W

- Behavior Analysis Based on Deep Learning Algorithm: Line Crossing, Intrusion, Region Entrance and Exit

- Temperature Exception Alarm

- Fire Detection Algorithm

- 384 × 288 Resolution 17 μm, VOx UFPA, NETD ≤35 mK (25° C, F# = 1.0)

- Image Processing Technology: Liner, Histogram, and Self-Adaptive Thermal AGC Mode, DDE, 3D DNR

Specifications

DS-2TD4137-25/W	
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 35 mK (25° C, F# = 1.0)
Focal Length	25 mm
Focus Mode	Athermalized
IFOV	0.68 mrad
Field of View	14.9° × 11.2° (H × V)
Minimum Focusing Distance	13 m
Aperture	$f/1.0$
Digital Zoom	2x, 4x, 8x, 16x
Optical Module	
Image Sensor	1/1.8" progressive scan CMOS
Resolution	2688 × 1520, 4 MP
Minimum Illumination	Color: 0.005 lux @ ($f/1.3$, AGC on), B/W: 0.001 lux @ ($f/1.3$, AGC on)
Field of View	56.6° × 33.7° (H × V) to 1.8° × 1.0° (H × V)
Focal Length	6 mm–240 mm, 40x
Aperture (Range)	$f/1.3$–$f/4.6$
Focus Mode	Auto, semi-auto, manual
Shutter Speed	1s 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 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/dome reboot/dome adjust/aux output
Illuminator	
IR Distance	Up to 660 ft (200 m)
IR Intensity and Angle	Automatically adjusted
Smart Function	
VCA (Video Content Analysis)	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	3 temperature measurement rule types, 273 presets as scene, 21 rules of each scene (10 points, 10 areas, and 1 line)
Temperature Range	-20° to 150° C (-4° to 302° F)
Temperature Accuracy	±8° C (±14.4° F)
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 × 480, 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 × 480, 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 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
API	Open-ended API, supporting ISAPI, HIKVISION SDK, and third-party management platform, open network video interface

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Specifications (continued)

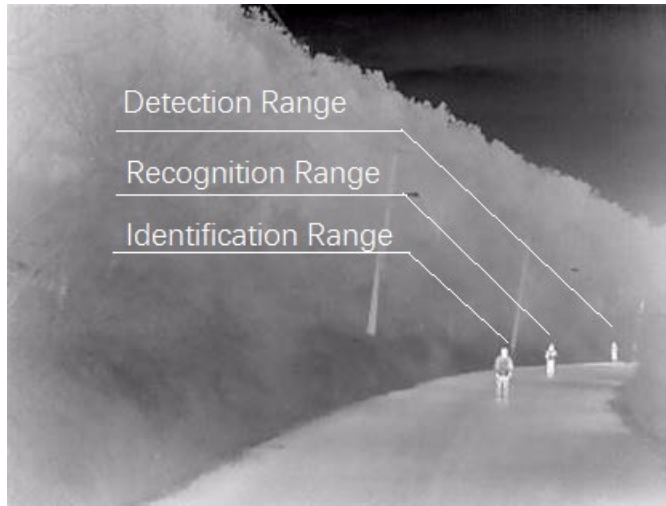| DS-2TD4137-25/W	
Network (continued)	
Simultaneous Live View	Up to 20 channels
User/Host Level	Up to 32 users, 3 levels: administrator, operator, user
Security	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering
Client	iVMS-4200, Hik-Connect
Web Browser	IE 11, Chrome 41–44, Firefox 30–51
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/e-mail linkage
Audio Input	1, 3.5 mm mic in/line in interface. Line input: 2–2.4 V (p-p), output impedance: 1K Ω ±10%
Audio Output	Linear level; impedance: 600 Ω
Communication Interface	1, RJ-45 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	
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% Hi-PoE
Power Consumption	24 VAC ±25%: 5 A, maximum 60 W Hi-PoE: Maximum 60 W
Work Temperature/Humidity	From -40° to 65° C (-40° to 149° F), humidity: 95% or less (non-condensing)
Wiper	Yes
Protection Level	IP66 Standard TVS 6000V lightning protection, surge protection and voltage transient protection
Dimensions	266.6 mm × 410 mm × 198.6 mm (10.5" × 16.15" × 7.82")
Weight	Approximately 9 kg (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.
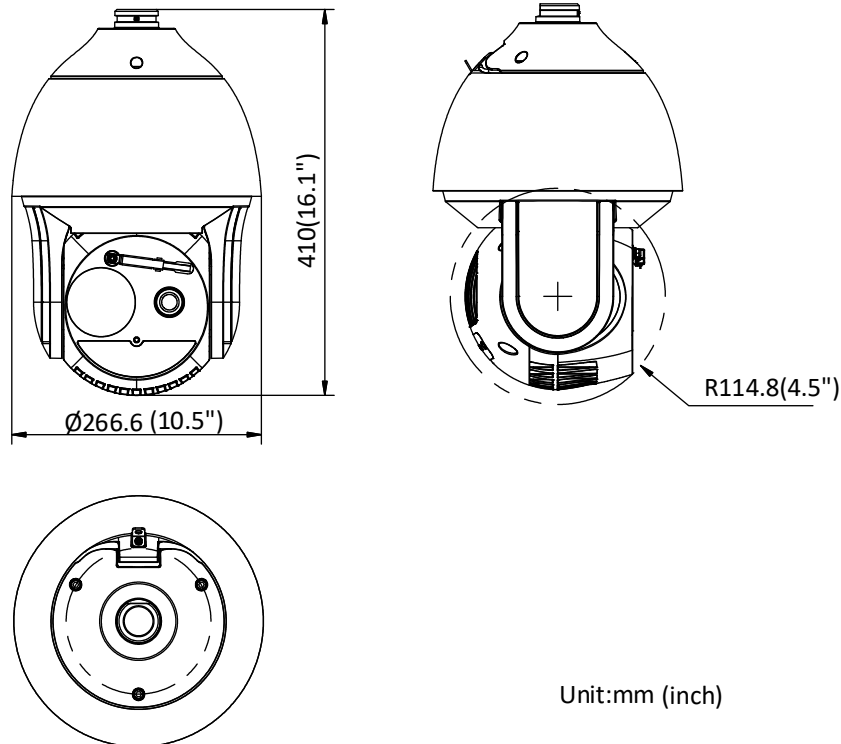
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Detection Range (Vehicles: 1.4 × 4.0 m)	Detection Range (Humans: 1.8 × 0.5 m)	Recognition Range (Vehicles: 1.4 × 4.0 m)	Recognition Range (Humans: 1.8 × 0.5 m)	Identification Range (Vehicles: 1.4 × 4.0 m)	Identification Range (Humans: 1.8 × 0.5 m)
2255 m	735 m	564 m	184 m	282 m	92 m

Smart Function Table

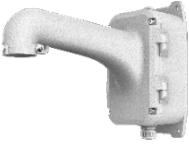*The table is for reference only, and the performance may vary according to different environment.*

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	585 m	295 m	1470 m	735 m

Dimensions

Unit:mm (inch)

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Accessories

NOT INCLUDED		
JBPW-L Box	**PMP + WMP-L** Vertical Pole Mount	**WMP-L** Wall Mount

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