

DS-2TD4137-25/W

Thermal and Optical Bi-spectrum Network Speed Dome















Hikvision DS-2TD4137-25/W 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 × 288 (the resolution of output image is 384 × 288) resolution 17 µm, VOx UFPA, NETD ≤ 40 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

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				
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					
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 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: 30 fps (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 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 $K\Omega$				
Αυσίο πιρατ	± 10%				
Audio Output	Linear Level; Impedance: 600Ω				
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.				
Communication interrace	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				
Tower consumption	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				
Trottedion Level	Protection				
Dimension	220 mm × 410 mm × 198.6 mm (8.66" × 16.15" × 7.82")				
Weight	Approx. 9 kg (19.84 lb)				



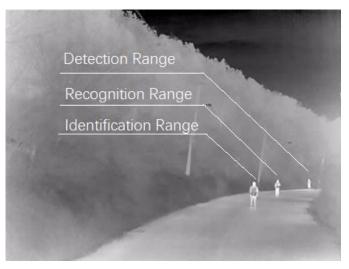
DRI Range Table

- * The table is only for reference and the performance may vary 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.



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

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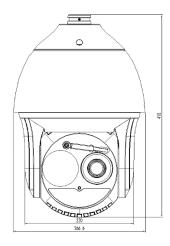
VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Fire Detection
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Measurement	Measurement	(Object: 2 × 2 m)	(Object: 1 × 1 m)
4.0 m)	0.5 m)	(Object: 2 × 2 m)	(Object: 1 × 1 m)		
525 m	175 m	585 m	295 m	1470 m	735 m

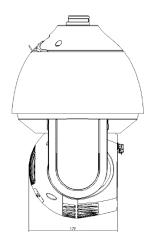
Available Model

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



Dimension







Unit:mm

Accessory Optional



DS-1602ZJ-Pole Vertical Pole Mount



DS-1603ZJ Wall Mount



DS-1604ZJ-box Wall 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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