

DS-2TD4137-50/W Thermal and Optical Bi-spectrum Network Speed Dome



Hikvision DS-2TD4137-50/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.

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Key Feature

- Powerful perimeter protection functions, based on intelligent algorithm: Line crossing, intrusion, region entrance & 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

i nermai 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	50 mm
Focus Mode	Athermalized
IFOV	0.34 mrad
Aperture	F1.0
Field of View	7.5° × 5.6° (H × V)
Min. Focusing Distance	50 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
РТΖ	
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



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	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		
	Thermal channel	
	50 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 512, 384 × 288)	
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	
	50 fps (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)	
Video Commonian	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		
	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 (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	
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User	
Socurity	User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE	
Security	802.1x access control, IP address filtering	
Client	iVMS-4200, Hik-Connect	
Web Proviser	Live view (plug-in allowed) : Internet Explorer 11 Live view (plug-in free): Chrome	
Web Browser	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 Innut	1, 3.5 mm Mic in/Line in interface. Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω	
Audio Input	± 10%	
Audio Output	Linear Level; Impedance: 600 Ω	
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.	
Communication Interface	1, RS-485 interface	
Analog Video Output	1.0 V [p-p]/75 Ω, BNC for thermal channel	
General		
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	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	24 VAC ± 25%, 24 VDC, 48 VDC	
	24 VAC ± 25%: 5 A, Max. 60 W	
Power Concumption	24 VDC: 2.5A, Max. 60 W	
Power Consumption	48 VDC: 1.25V, 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	
Drotaction Loval	IP66 Standard; TVS 6000 V Lightning Protection, Surge Protection and Voltage	
Protection Level	Transient 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)
4510 m	1470 m	, 1127 m	368 m	564 m	, 184 m

Smart Function Table

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

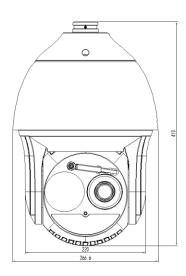
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
1050 m	350 m	1170 m	590 m	2940 m	1470 m

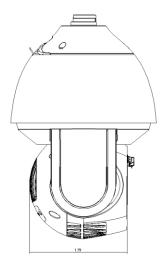
Available Model

DS-2TD4137-50/W, DS-2TD4137-50/W (B)



Dimension







Unit:mm

Accessory Optional





DS-1603ZJ

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.



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