

DS-2TD4137-25/WY Thermal and Optical Bi-spectrum Network Speed Dome





Hikvision DS-2TD4137-25/WY Thermal and Optical Bi-spectrum Network Speed Dome equipped with built-in GPU which sup ports 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.

- 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 μ m, 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
- Smoke detection for fire prevention



• Specification

Thermal Module				
Image Sensor	VOx 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	13m			
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)~1.8° ×1.0° (H × V)			
Focal Length	6-240 mm, 40x			
Aperture (Range)	F1.3-F4.6			
Focus Mode	Semi-auto & Manual			
Digital Zoom	×2, ×4, ×8, ×16			
Shutter Speed	1s to 1/30,000s			
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			
DI-	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame			
Park	Scan/Panorama Scan			
PT Status	Turn On/Turn Off			
Calcadulad T	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 150m			
IR Intensity and Angle	Automatically adjusted			
Smart Function				
	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region			
VCA	Exiting), up to 10 scenes and 8 VCA rules for each scene			
Tanana matana Marana mana	Support 3 temperature measurement rule types, 273 presets as scene, 21 rules of each			
Temperature Measurement	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.			
Video and Audio				
	Thermal channel			
	50fps(1920 × 1080, 1280 × 960, 1280 × 720, 704×576, 640×512, 384×288)			
Main Stream	Optical channel			
iviaiii Sti eaiii	50Hz:25fps(2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)			
	60Hz:30fps(2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)			
	Thermal channel 50fps(704×576, 640×512,			
	384×288)			
Sub-stream	Optical channel			
	50Hz:25fps(704 × 576, 352 × 288)			
	60Hz:30fps(704 × 576, 352 × 288)			
	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				
5	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,			
Protocols	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE			
Notwork Storage	MicroSD/SDHC/SDXC card (256 G) local storage, and NAS (NFS, SMB/CIFS), auto			
Network Storage	network replenishment (ANR)			
API	ISAPI, HIKVISION SDK, third-party management platform, ONVIF profile S,T,G)			
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			
Security	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 Ω ± 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				
	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	24V AC ± 20%, 36V DC ± 20%, 48V DC ± 20%			
Power Consumption	65W Max			
Work Temperature/Humidity	From -40°C to 65°C (-40°F to 149°F); Humidity: 95% or Less			
Wiper	Yes			
Dontontino Lovel	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient			
Protection Level	Protection			
Dimension	220 mm × 410 mm × 198.6 mm (8.66" × 16.15" × 7.82")			
Weight	Approx. 9kg (19.84 lb)			

- Range Table

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)
525 m	175 m	585 m	295 m	1470 m	735 m

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Detection Range: In order to distinguish an object from the background, the image must be covered by 1.5 or more pixels.

Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the image must have at least 6 pixels across its critical dimension.

Identification Range: In order to identify the object and describe it in details, the critical dimension must have be least 12 pixels across

Detection	Detection	Recognition	Recognition	Identification	Identification
Range	Range	Range	Range	Range	Range
(Vehicles: 1.4 ×	(Humans: 1.8 ×	(Vehicles: 1.4 ×	(Humans: 1.8 ×	(Vehicles: 1.4 ×	(Humans: 1.8 ×
4.0 m)	0.5 m)	4.0 m)	0.5 m)	4.0 m)	0.5 m)
2255 m	735 m	564 m	184 m	282 m	92 m

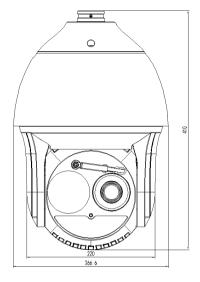
Available Model

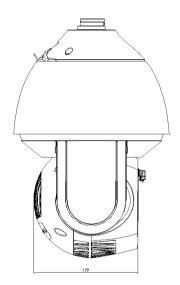
DS-2TD4137-25/WY DS-2TD4137-25/WY(B)

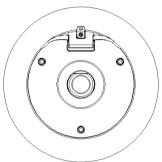
^{*} The table is only for reference and the performance may vary from camera to camera.



Dimension







Unit:mm

Accessory

Optional

DS-1603ZJ	DS-1602ZJ-Pole	DS-1604ZJ-box
Wall Mount	Vertical pole mount	Wall Mount
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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.