

DS-2TD4137-50/WY 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 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	50 mm		
Focus Mode	Athermalized		
IFOV	0.34 mrad		
Aperture	F1.0		
Field of View	7.5° × 5.6° (H × V)		
Min. Focusing Distance	50m		
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	Auto/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		
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/Doom Reboot/Doom Adjust/Aux Output		
Illuminator	Scan, Fanorama Scan, Doom Reboot, Doom Adjust, Aux Output		
IR Distance	Up to 150m		
IR Intensity and Angle	Automatically adjusted		
Smart Function	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		
Temperature Measurement	Support 3 temperature measurement rule types, 273 presets as scene, 21 rule 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.		
Video and Audio			
Main Stream	Thermal channel 50fps(1920 × 1080, 1280 × 960, 1280 × 720, 704×576, 640×512, 384×288)		
	Optical channel		
	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)		
V. 1 0 .	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,		
Protocols	NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE		
	MicroSD/SDHC/SDXC card (256 G) local storage, and NAS (NFS, SMB/CIFS),		
Network Storage	auto 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 802.1x access control, IP address filtering		
Client	iVMS-4200, Hik-Connect		
	Live view (plug-in allowed) : Internet Explorer 11 Live view (plug-in free) :		
Web Browser	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		
Aldilli Action	capture/FTP upload/Email linkage		
Audia Input	1, 3.5 mm Mic in/Line in interface. Line input: 2 - 2.4 V [p-p], output impedance:		
Audio Input	1 KΩ ± 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 Ω		
General			
	32 languages		
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech,		
Web Client Language	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 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		
Drotostian Lavel	IP66 Standard; TVS 6000V 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. 9kg (19.84 lb)		
Detection Range Table			
VCA Range for Humans	350 m		
VCA Range for Vehicles	1050 m		

- 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)
1050 m	350 m	1170 m	590 m	2940 m	1470 m



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

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.

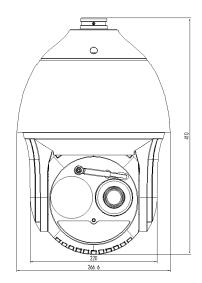
Identification Range: In order to identify the object and describe it in details, the critical dimension must have be least 12 pixels across

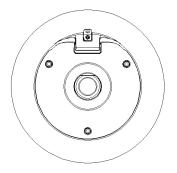
Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0)	0.5)	1 4 4 0>	100 5 \	1 4 4 0>	1 0 · · 0 F · · · \
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)

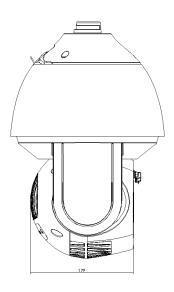
Available Model

DS-2TD4137-50/WY DS-2TD4137-50/WY(B)

Dimension







Unit:mm



Accessory

Optional

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



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