

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 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
- 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
- High quality detector with 10 years guarantee
- Smart tracking: Panorama tracking, Event tracking and Multi-scene patrol tracking
- Thermal channel supports EIS, conflicted with intelligent function
- Fire and smoke detection algorithm



- 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			



Exiting Up to 10 scenes and 8 VCA rules for each scene	n Scan/Frame		
IR Distance Up to 150m IR Intensity and Angle Automatically adjusted			
Automatically adjusted Smart Function VCA Support 4 VCA rule types (Line Crossing, Intrusion, Region Entran Extiting), up to 10 scenes and 8 VCA rules for each scene Support 3 temperature measurement rule types, 273 presets as s of each scene (10 points, 10 areas, and 1 line) Temperature Range -20 °C to 150 °C (-4 °F to 302 °F) Temperature Accuracy \$\frac{2}{2} \text{ 8 °C (\pm 14.4 °F)} Fire Detection Video and Audio Thermal channel 50fps(1920 × 1080, 1280 × 960, 1280 × 720, 704×576, 640×512) 60fbs:(1920 × 1080, 1280 × 960, 1280 × 960, 1280 × 720) 60fbs:(30fps(2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720) 60fbs:(30fps(2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720) 7 Thermal channel 50fps:(704×576, 640×512, 384×288) Optical channel 50fps:(704 × 576, 352 × 288) 60fbs:(30fps(704 × 576, 352 × 288) Wideo Compression Wideo Compression G.711u/G.711a/G.722.1/MP2L2/G.726/PCM Network Protocols Network Protocols Network Storage MicroSD/SDHC/SDXC card (256 G) local storage, and NAS (NFS, auto network replenishment (ANR) API ISAPI, HIKVISION SDK, third-party management platform, ONVIF Simultaneous Live View Up to 20 channels User/Host level Up to 32 users, 3 levels: Administrator, Operator, User User authentication (ID and password), MAC address binding, HT encryption, IEEE 802.1 x access control, IP address filtering Client Web Browser Web Browser			
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Live view (plug-in allowed) : Internet Explorer 11 Live view (plug-in			
Web Browser	ı-in free) ·		
Chrome 57.0 +, Firefox 52.0 + Local service : Chrome 57.0+, Firef	,		
Interface	0.07.02.0 1		
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	
Alarm Action	capture/FTP upload/Email linkage	
Audia Imput	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.	
Communication 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%, Hi-PoE	
Power Consumption	65W Max	
Work Temperature/Humidity	From -40°C to 65°C (-40°F to 149°F); Humidity: 95% or Less	
Wiper	Yes	
B	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	
Approval		
	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019,	
ГМС	EN50130-4: 2011+A1: 2014);	
EMC	RCM (AS/NZS CISPR 32: 2015);	
	IC (ICES-003: Issue 7)	
Safety	CB: IEC 62368-1: 2014+A11;	
	CE-LVD: EN 62368-1: 2014/A11: 2017;	
	BIS: IS 13252 (Part 1): 2010/ IEC 60950-1: 2005	
	CE-RoHS: 2011/65/EU,	
Environment	WEEE: 2012/19/EU,	
	Reach: Regulation(EC) No 1907/2006	
Drotostion		
Protection	IP66: IEC 60529-2013	



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

DORI

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 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
4.0 111)	0.5 111)	1.4 ^ 4.0 111)	1.0 ~ 0.5 111)	1.4 ~ 4.0 111)	1.0 ~ 0.0 111)

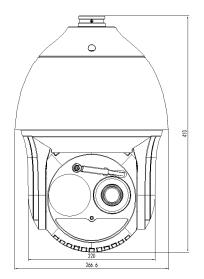
Available Model

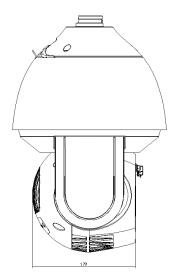
DS-2TD4137-50/W DS-2TD4137-50/W(B)

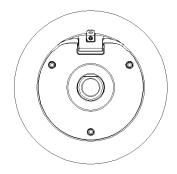
^{*} The table is only for reference and the performance may vary from camera to camera.



Dimension







Unit:mm



Accessory

Optional

DS-1603ZJ	DS-1604ZJ-box	DS-1602ZJ-Pole
Wall mount	Wall mount	Vertical pole mount
	The state of the s	

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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