

#### DS-2TD4137-50/WY

**Anti-corrosion Thermal and Optical Bi-spectrum Network Speed Dome** 







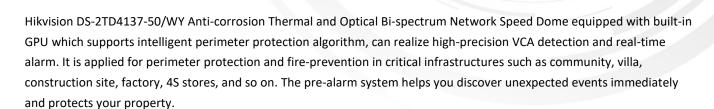












#### **Key Feature**

- 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.
- **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





## 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	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					
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					
I all	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	, and the second			
	Support 4 VCA rule types (Line Cressing Intrusion Degion Entrance and Degion			
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			
Townsentium Management	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.			
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: 30fps (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)			
	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)			
4.01	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			
Casumitu	User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE			
Security	802.1x access control, IP address filtering			
Client	iVMS-4200, Hik-Connect			
Wah Prouger	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 Input	1, 3.5 mm Mic in /Line in interface. Line input: 2 to 2.4 V [p-p], output impedance: 1					
	$K\Omega \pm 10\%$					
Audio Output	Linear Level; Impedance: $600~\Omega$					
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	24 VAC ± 25%, 24 VDC, 48 VDC					
	24 VAC ± 25%: 5 A, Max. 60 W					
Power Consumption	24 VDC: 2.5A, Max. 60 W					
Tower 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					
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient					
1 Totalion Laver	Protection					
Dimension	220 mm × 410 mm × 198.6 mm (8.66" × 16.15" × 7.82")					
Weight	Approx. 9 kg (19.84 lb)					



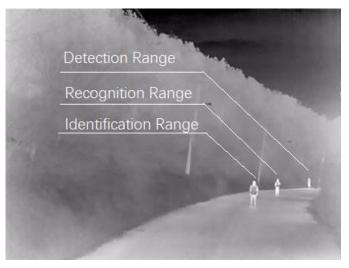
### **DRI Range Table**

- \* 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.



<b>Detection Range</b>	<b>Detection Range</b>	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)

#### **Smart Function Table**

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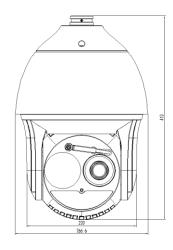
VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Fire Detection
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Measurement	Measurement	(Object: 2 × 2 m)	(Object: 1 × 1 m)
4.0 m)	0.5 m)	(Object: 2 × 2 m)	(Object: 1 × 1 m)		
1500 m	500 m	1170 m	590 m	2940 m	1470 m

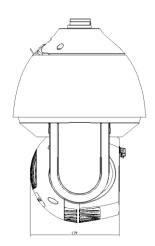
#### **Available Model**

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



#### Dimension







Unit:mm

# Accessory Optional







DS-1603ZJ



DS-1602ZJ-Pole Vertical Pole Mount

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