

HIKVISION

DS-2TD4238-25/S2 Thermal & Optical Bi-spectrum Network Speed Dome



Hikvision DS-2TD4238-25/S2 Thermal & Optical Bi-spectrum Network Speed Dome is applied to manufacture process supervision of pyrophoric materials in factories, electric substation, and hydropower station. The accurate temperature measurement system sends you alarms to protect you from property loss.

- Perimeter Protection function: line crossing, intrusion, region entrance and exit
- Temperature exception alarm for fire prevention, -20°C to 150°C (-4°F to 302°F), ± 8°C (± 14.4°F)
- Fire detection algorithm
- 384 × 288 (the resolution of output image is 1280 × 720) resolution 12  $\mu$ m, VOx UFPA, NETD  $\leq$  35 mK (25 °C, F# = 1.0)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR
- High quality detector with 10 years warranty
- Smart tracking: Panorama tracking, Event tracking and Multi-scene patrol tracking
- Smart tracking linkage: thermal view and optical view
- Smoke detection for fire prevention



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# Specification Thermal Module

Thermal Module				
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays			
Resolution	$384 \times 288$ (the resolution of output image is $1280 \times 720$ )			
Pixel Interval	12 µm			
Response Waveband	8 μm to 14 μm			
NETD	Less than 35 mK (@25 °C,F#=1.0)			
Focal Length	25 mm			
Focus Mode	Athermalized			
IFOV	0.48 mrad			
Aperture	F1.0			
Field of View	10.5°×7.9°(H × V)			
Min. Focusing Distance	23m			
Digital Zoom	×2, ×4, ×8			
Optical Module				
Image Sensor	1/2.8" Progressive Scan CMOS			
Resolution	2688 × 1520, 4 MP			
Min. Illumination	Color: 0.05 Lux @(F1.2, AGC ON), B/W: 0.01 Lux @(F1.2, AGC ON)			
Field of View	58.8° × 34.4° (H × V) to 2.18° × 1.2° (H × V)			
Focal Length	4.8-153 mm, 32x			
Aperture (Range)	F1.2-F4.4			
Focus Mode	Auto/Semi-auto/Manual			
Shutter Speed	1s to 1/100,000s			
WDR	120 dB			
Optical Defog	No, support algorithmic defog			
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 -5° to + 90° (auto flip)			



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rom 0.1°/s to 105°/s, Preset Speed: 200°/s are configurable. ets Per Patrol 0 Minutes Per Pattern 5can/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan			
ets Per Patrol ) Minutes Per Pattern Gcan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame			
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) Minutes Per Pattern Gcan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame			
Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame			
Juli			
Turn On/Turn Off			
Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Doom Reboot/Doom Adjust/Aux Output			
Automatically adjusted			
upport 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and egion Exiting), up to 10 scenes and 8 VCA rules for each scene			
erature measurement rule types, 273 presets as scene, 21 ene (10 points, 10 areas, and 1 line)			
C (-4 °F to 302 °F)			
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tection, up to 10 fire points detectable.			



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	Optical channel				
	50 Hz:25 fps (704 × 576, 352 × 288)				
Sub-stream	60 Hz:30 fps (704 × 576, 352 × 288)				
	Thermal channel				
	25 fps (704 × 576, 640 ×512, 256 × 192)				
Video Compression	Main stream: H.265+/H.265/H.264+/ H.264				
·····	Sub-stream: H.265/H.264/MJPEG				
Audio Compression	G .711u/G.711a/G.722.1/MP2L2/G.726/PCM				
Network					
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS,				
Protocols	NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE				
Natural: Charges	MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS,				
Network Storage	SMB/CIFS), auto network replenishment (ANR)				
	ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile				
API	S, Profile G, Profile T)				
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				
Security	encryption, IEEE 802.1x access control, IP address filtering				
Client	iVMS-4200, Hik-Connect				
	Live view (plug-in allowed) : Internet Explorer 11				
Web Browser	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 (0-3.3 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	LINE_IN Input/MIC Input; Peak: From 2 to 2.4V[p-p]; Output Impedance:				
Audio Input	1KΩ±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 $\Omega$ , BNC for thermal channel				
General					
Web Client Language	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, 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	24VAC ± 20%, two-core terminal block 36VDC ± 20%, two-core terminal block 48VDC ± 20%, two-core terminal block Hi-PoE				
Power Consumption	Max 30 W				
Working Temperature/Humidity	-30°C to 60°C (-22°F to 140°F), 90% or less				
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection				
Dimension	305 mm × 185 mm × 163 mm (12.01 " × 7.28 " × 6.42 ")				
Weight	Approx. 3.9Kg (8.6lb)				

#### • Range Table

VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 0.5 × 0.5 m)	Temperature Measurement (Object: 0.2 × 0.2 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
750 m	250 m	208 m	83 m	2083 m	1042 m

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\* 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.

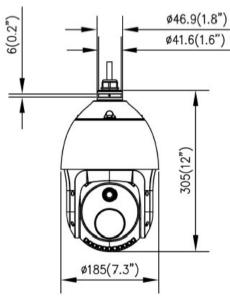


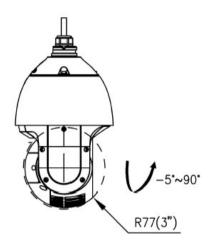
Detection Range	Detection Range	Recognition	Recognition	ldentification	ldentification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
3194 m	1042 m	799 m	260 m	399 m	130 m

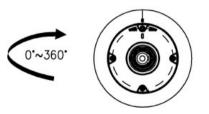
# • Available Model

DS-2TD4238-25/S2

# Dimension









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## Accessory

#### Optional

DS-1604ZJ-pole Vertical Pole Mount	DS-1604ZJ-BOX-PO LE Pole Mount	DS-1663ZJ Ceiling Mount	DS-1604ZJ-BOX-CO RNER Wall Mount with Junction Box	DS-1673ZJ Vertical Pole Mount
DS-1662ZJ Pendant Mount	DS-1619ZJ Pendant Mount	DS-1604ZJ-box Wall Mount	DS-1660ZJ Parapet Wall Mount	DS-1604ZJ-corner Corner Mount
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DS-1602ZJ Wall mount	DS-1667ZJ Pendant Mount	DS-1661ZJ Pendant 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.