

DS-2TD4238-10/S2

Thermal & Optical Bi-spectrum Network Speed Dome





Hikvision DS-2TD4238-10/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 μ 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



Specification

Thermal Module			
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays		
Resolution	384×288 (the resolution of output image is 1280×720)		
Pixel Interval	12 μm		
Response Waveband	8 μm to 14 μm		
NETD	Less than 35 mK (@25 °C,F#=1.0)		
Focal Length	10 mm		
Focus Mode	Athermalized		
IFOV	1.2 mrad		
Aperture	F1.0		
Field of View	26.46°×19.81° (H × V)		
Min. Focusing Distance	1.5m		
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 o channel			
Target Coloration	Supported in white hot and black hot mode.		
PTZ			
Movement Range	Range Pan: 360° Continuous Rotate; Tilt: From -5° to + 90° (auto flip)		



Pan Speed	ceed 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			
Scheduled Task	Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output			
Illuminator				
IR Distance	Up to 100m			
IR Intensity and Angle	Automatically adjusted			
Smart Function				
VCA	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and			
VCA	Region 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			
remperature measurement	rules 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				
	Optical channel			
	50 Hz:25 fps (2688 × 1520, 1920×1080, 1280×960, 1280×720)			
Main Stream	60 Hz:30 fps (2688 × 1520, 1920×1080, 1280×960, 1280×720)			
	Thermal channel			
	25 fps (1280×720, 704 × 576, 640 ×512, 256× 192)			



	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 Communica	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				
D	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 (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			
c	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			
Alawa A at:	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart			
Alarm Action	capture/FTP upload/Email linkage			
Audio Innut	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	 RJ45 10 M/100 M Self-adaptive Ethernet interface. 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,				
W 1 612	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian,				
Web Client Language	Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish,				
	Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian,				
	Lithuanian, Portuguese (Brazil)				
	24VAC ± 20%, two-core terminal block				
Power Supply	36VDC ± 20%, two-core terminal block				
1 ower supply	48VDC ± 20%, two-core terminal block				
	Hi-PoE				
Power Consumption	Max 30 W				
Working	-30°C to 60°C (-22°F to 140°F), 90% or less				
Temperature/Humidity					
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)
300 m	100 m	83 m	33 m	833 m	417 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.

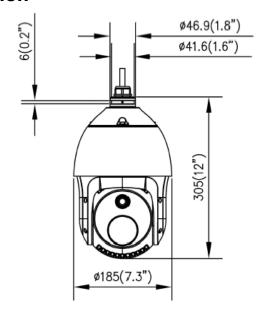
Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.

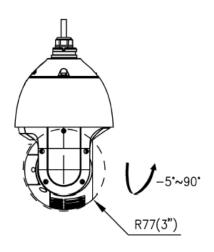
Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
1278 m	417 m	319 m	104 m	160 m	52 m

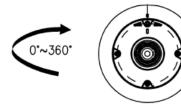
Available Model

DS-2TD4238-10/S2

Dimension









Accessory

Optional

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

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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