

DS-2TD2537T-4/Q Explosion-Proof Thermal Camera

















Hikvision DS-2TD2537T-4/Q Explosion-Proof Thermographic Thermal & Optical Bi-spectrum bullet camera series are applied to perimeter defense and fire-prevention in critical infrastructures such as: oil industry, mine fields, chemical industry, port, grain processing industry, and so on. It adopts 304 stainless steel material to meet the requirements of used in explosion-proof environment. The accurate temperature measurement system sends you alarms to protect your property.

Key Feature

- High sensitivity sensor with 384 × 288 resolution
- NETD is less than 35 mk (@25°C, F# = 1.0)
- Supports contrast adjustment
- Leading thermal image processing technology: Adaptive AGC, DDE, 3D DNR
- Up to 15 palettes of adjustable color
- Powerful behavior analysis functions, based on deep learning algorithm: Line crossing, intrusion, region entrance & exit
- High quality detector with 10 years warranty
- 304 Stainless Steel enclosure, protecting camera in corrosive environments and extending reliability and longevity far beyond standard cameras
- ATEX, IECEx, NEMA 4X Certificated



Specification

Max. Resolution 384 × 288 Thermal Module Image sensor Vanadium Oxide Uncooled Focal Plane Arrays Pixel Interval 17 μm NETD less shan 35 mk (@25°C), F# = 1.0 MRAD 3.36 mrad Field of View 90.0° × 65.4° (H × V) Min. Focusing Distance 0.5 m Aperture F1.0 Lens (Focal Length) 4.4 mm Response waveband 8 μm to 14 μm Optical Module 7.2 m Progressive Scan CMOS Max. Resolution 2688 × 1520 Image Sensor 1/2.7" Progressive Scan CMOS Min. Illumination Color: 0.05 Lux @ (F1.6, AGC ON), B/W: 0.01 Lux @ (F1.6, AGC ON) Field of View 128.5° × 75.5° (H × V) Aperture Range F1.6 WDR 120 dB Shutter Speed 1s to 1/100,000s Day & Night IR cut filter with auto switch Focal Length 2 mm Selection Parameter Case Type Bullet Smart Function 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules. </th <th>Thermal</th> <th></th>	Thermal					
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Audio Input Mic in/Line in interface. Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 10% Audio Output Linear Level; Impedance: 600 Ω Communication Interface 1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface (half duplex) Infrared IR Distance up to 30 m	Alarm Output	2-ch relay outputs, alarm response actions configurable				
Audio Output Linear Level; Impedance: 600 Ω Communication Interface 1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface (half duplex) Infrared IR Distance up to 30 m	Alarm Action	SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage				
Communication Interface 1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface (half duplex) Infrared IR Distance up to 30 m	Audio Input	Mic in/Line in interface. Line input: 2 to 2.4 V [p-p], output impedance:1 $K\Omega \pm 10\%$				
Infrared IR Distance 1, RS-485 interface (half duplex) up to 30 m	Audio Output	Linear Level; Impedance: $600~\Omega$				
Infrared IR Distance up to 30 m	Communication Interface	·				
	Infrared					
IR Intensity and Angle Automatically adjusted	IR Distance	up to 30 m				
	IR Intensity and Angle	d Angle Automatically adjusted				



Network					
	Thermal:				
	25 fps (1280 × 720, 704 × 576, 640 × 512, 320 × 240)				
Main Stream	Optical:				
	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)				
	60Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)				
	Thermal:				
	25 fps (704 × 576, 384 × 288, 352 × 288)				
Sub stream	Optical:				
	50 Hz: 25 fps (704 × 576, 352 × 288)				
	60 Hz: 30 fps (704 × 480, 352 × 240)				
Video compression	H.265/H.264/MJPEG, H.265+/H.264+ encoding with Baseline/Main/High Profile				
Audio compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM				
	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS,NTP, RTSP,				
Protocols	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE				
Simultaneous live view	Up to 20				
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User				
	User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE				
Security measures	802.1x access control, IP address filtering				
Integration					
	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 256 GB), support				
SD Memory Card	manual/alarm recording				
Application Programming	Support ISAPI, HIKVISION SDK and third-party management platform				
Client	iVMS-4200				
Web Browser	Google Chrome 57+, Mozilla Firefox 52+, Internet Explorer 10+, Mac Safari 12+				
General					
Menu Language	English				
Power	100 to 240 VAC, PoE (802.3af)				
Power Consumption	100 to 240 VAC, PoE (802.3af), Max. 8 W				
Work Temperature/Humidity	-40°C to 60°C (-40°F to 140°F), 95% or less				
	IP68 Standard,TVS 6000V Lightning protection, surge protection, voltage transient				
Protection Level	protection				
Dimensions	301.7 mm × 179.2 mm × 152.0 mm (11.88" × 7.06" × 5.98")				
Weight	Approx. 6.3 kg (13.89 lb)				
Approval					
	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN50130-				
FN4C	4: 2011+A1: 2014);				
EMC	RCM (AS/NZS CISPR 32: 2015);				
	IC (ICES-003: Issue 7)				
Cafaty	CB: IEC 62368-1: 2014+A11;				
Safety	CE-LVD: EN 62368-1: 2014/A11: 2017				
Protection	IP68: IEC 60529-2013				
	IP68: IEC 60529-2013 ATEX: II 2 G Ex db IIC T6 Gb/II 2 D Ex tb IIIC T80°C Db				
Explosion-Proof Protection					



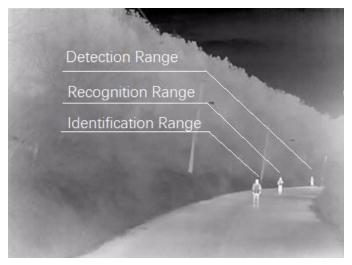
DRI Range Table

- * The table is only for reference and the performance may vary according to different environment.
- * The optimal 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)	0.6 m)	1.4 × 4.0 m)	1.8 × 0.6 m)	1.4 × 4.0 m)	1.8 × 0.6 m)
397 m	129 m	99 m	32 m	50 m	16 m

Smart Function Table

* The table is only for reference and the performance may vary according to different environment.

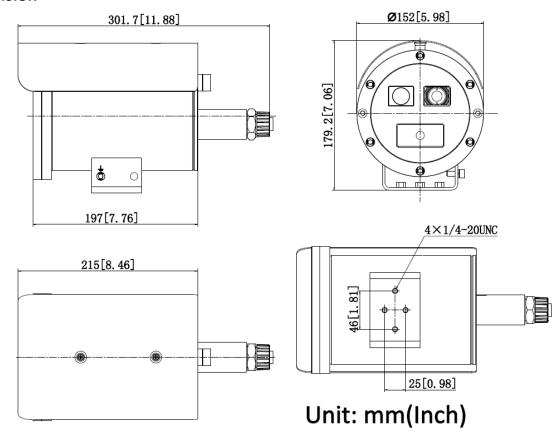
VCA Range (Vehicles: 1.4 ×	× VCA Range (Humans: 1.8 × Temperature Measurement		Temperature Measurement	
4.0 m)	0.6 m)	(Object: 0.2 × 0.2 m)	(Object: 0.5 × 0.5 m)	
92 m	31 m	10 m	26 m	

Available Model

DS-2TD2537T-4/Q

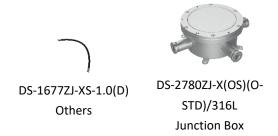


Dimension



Accessory

Optional



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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