

DS-2TD2528T-3/Q(B) Explosion-Proof Optical & Thermal Network Bullet Camera





Hikvision DS-2TD2528T-3/Q Explosion-Proof Thermographic Thermal & Optical Bi-spectrum bullet camera series are applied to perimeter protection and fire-prevention in critical infrastructures such as: oil industry, mine fields, chemical industry, port, grain processing industry, and so on. It adopts 316L 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.

- High sensitivity sensor with 256 x 192 resolution
- NETD is less than 40 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 perimeter protection functions, based on intelligent algorithm: Line crossing, intrusion, region entrance & exit
- High quality detector with 10 years warranty
- 316L Stainless Steel enclosure, protecting camera in corrosive environments and extending reliability and longevity far beyond standard cameras
- ATEX, IECEx, NEMA 4X Certificated



Specification

Thermal					
Max. Resolution	256 × 192				
Thermal Module					
Image sensor	Vanadium Oxide Uncooled Focal Plane Arrays				
Pixel Interval	12 µm				
NETD	less than 40 mk (@25°C), F#=1.0				
MRAD	3.42 mrad				
Field of View	50.0° × 37.3° (H × V)				
Min. Focusing Distance	0.5 m				
Aperture	F 1.0				
Lens (Focal Length)	3.5 mm				
Response waveband	8 μm to 14 μm				
Optical Module					
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	83.7° × 43°(H × V)				
WDR	120 dB				
Aperture Range	F1.6				
Shutter Speed	1s to 1/100,000s				
Day & Night	IR cut filter with auto switch				
Focal Length	4.27 mm				
Smart Function					
VCA(Video Content Analysis)	4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules.				
Temperature Measurement	3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line).				
Temperature Range	-20°C to 550°C (-4°F to 1,022°F)				
Temperature Accuracy	Max (± 2°C, ± 2%)				
Infrared					
IR Distance	up to 30m				
IR Intensity and Angle	Automatically adjusted				
Network					
Main Stream	Thermal: 25 fps (1280 × 720, 704 × 576, 640 × 512, 320 × 240) Optical: 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)]				



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	Thermal:			
Sub stream	25 fps (704 × 576, 640 × 512, 320 × 240)			
	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			
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS,NTP, RTSP, 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			
Security measures	User authentication (ID and Password), MAC address binding, HTTPS			
Security measures	encryption, IEEE 802.1x access control, IP address filtering			
Integration				
Alarm Input	2-ch inputs (0 to 5 VDC)			
Alarm Output	2-ch relay outputs, alarm response actions configurable			
Alarm Action	SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage			
Audio Input	1 3.5mm Mic in/Line in interface. Line input: 2 to 2.4V[p-p], output impedance:1			
Audio Input	KΩ ± 10%			
Audio Output	Linear Level; Impedance: 600 Ω			
Ethernet	1 RJ45 10M/100M Self-adaptive Ethernet interface			
CD Momory Cord	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 256G),			
SD Memory Card	support 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				
	33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German,			
	Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian,			
Menu Language	Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish,			
	Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian,			
	Portuguese (Brazil), Ukrainian			
Power	100 to 240 VAC, PoE (802.3af)			
Power Consumption	100 to 240 VAC, PoE (802.3af), max.8W			
Work Temperature/Humidity	-40°C to 60°C (-40°F to 140°F), 90% or less			
Protection Level	IP68 Standard, TVS 6000V Lightning protection, surge protection, voltage			
Dimensions	transient protection 286.7 mm × 175.2 mm × 150.1 mm (11.29" × 6.9" × 5.91")			
Weight	Approx. 5.85 kg (12.90 lb)			



Approval	
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN50130-4: 2011+A1: 2014); 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
Protection	IP68: IEC 60529-2013
Explosion-Proof Protection ATEX: II 2 G Ex db IIC T6 Gb/II 2 D Ex tb IIIC T80°C Db IECEx: Ex db IIC T6 Gb/ Ex tb IIIC T80°C Db	
Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018), C5

• Range Table

VCA Range (Vehicles: 1.4 x 4.0 m)	VCA Range (Humans: 1.8 x 0.6 m)	Temperature Measurement (Object: 0.2 x 0.2 m)	Temperature Measurement (Object: 0.5 x 0.5 m)
84 m	28 m	12 m	30 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.

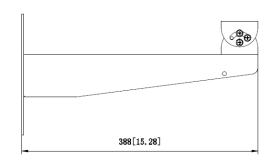
Detection Range (Vehicles: 1.4 x	Detection Range (Humans: 1.8 x	Recognition Range (Vehicles:	Recognition Range (Humans:	Identification Range (Vehicles:	Identification Range (Humans:
4.0 m)	0.6 m)	1.4 x 4.0 m)	1.8 x 0.6 m)	1.4 x 4.0 m)	1.8 x 0.6 m)
447 m	146 m	112 m	36 m	56 m	18 m

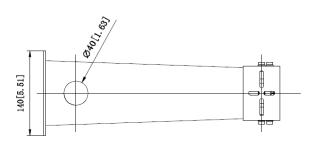
Available Model

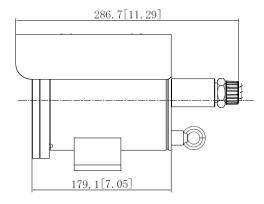
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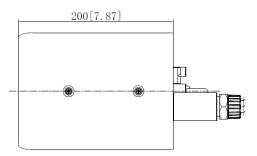


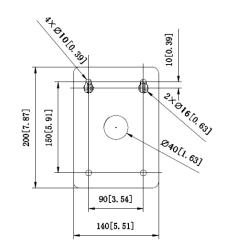
Dimension

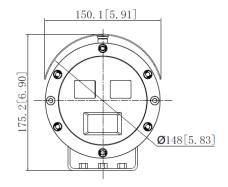










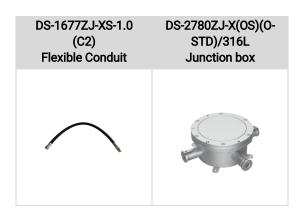


Unit: mm(Inch)



Accessory

Optional



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