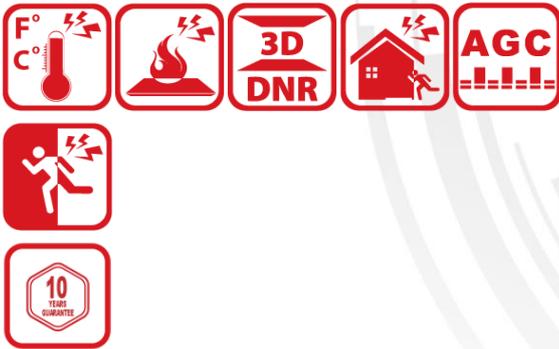


DS-2TD2537T-10/Q Explosion-Proof Thermographic Network Bullet Camera



Hikvision DS-2TD2537T-10/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 384 x 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 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	384 × 288
Thermal Module	
Image sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Pixel Interval	17 μm
NETD	less than 35 mk (@25°C), F#=1.0
MRAD	1.75 mrad
Field of View	37.9° × 28.7° (H × V)
Min. Focusing Distance	1.5 m
Aperture	F 1.0
Lens (Focal Length)	9.7 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	84.0° × 44.8°(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	4 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)]
Sub stream	Thermal: 25 fps (704 × 576, 384 × 288, 352 × 288) 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 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 KΩ ± 10%
Audio Output	Linear Level; Impedance: 600 Ω
Ethernet	1 RJ45 10M/100M Self-adaptive Ethernet interface
SD Memory Card	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 256G), 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	
Menu Language	English
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 transient protection
Dimensions	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)
210 m	70 m	18 m	45 m

▪ DORI

* 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.

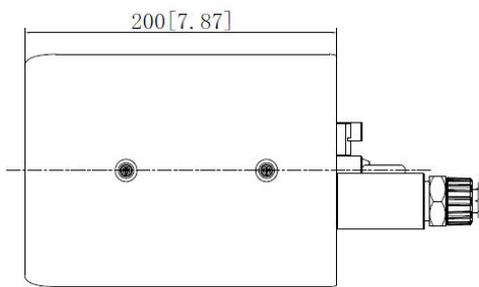
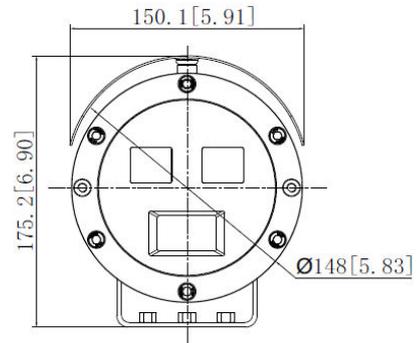
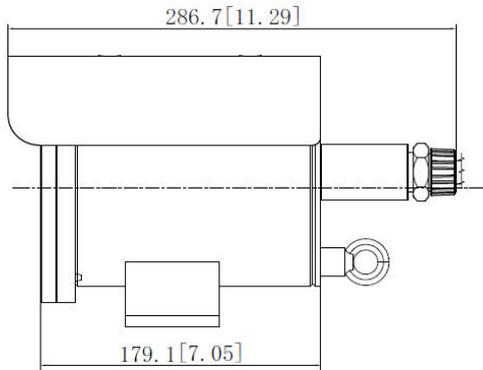
Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.

Detection Range (Vehicles: 1.4 x 4.0 m)	Detection Range (Humans: 1.8 x 0.6 m)	Recognition Range (Vehicles: 1.4 x 4.0 m)	Recognition Range (Humans: 1.8 x 0.6 m)	Identification Range (Vehicles: 1.4 x 4.0 m)	Identification Range (Humans: 1.8 x 0.6 m)
875 m	285 m	219 m	71 m	109 m	36 m

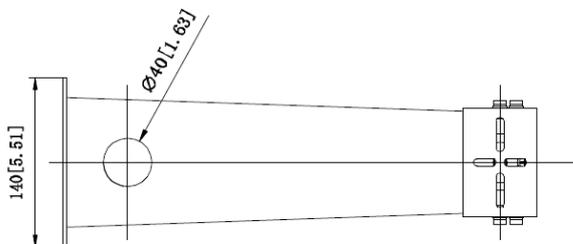
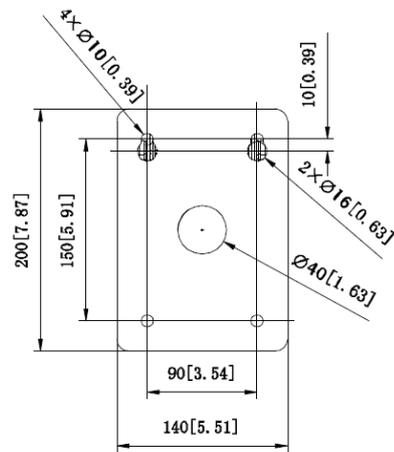
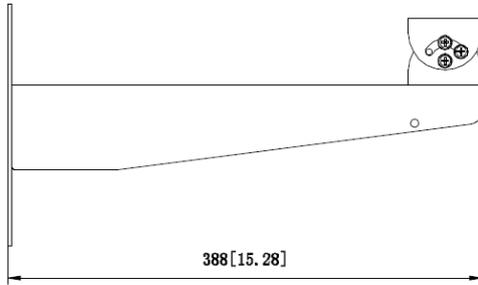
▪ Available Model

DS-2TD2537T-10/Q

▪ Dimension



Unit: mm(Inch)



▪ **Accessory**

▪ **Optional**

DS-1677ZJ-XS-1.0(D) Others	DS-2780ZJ-X(OS)(O-STD)/316L Junction Box
	

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