

DS-2TD2528T-3/Q(C)

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 17 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

| 256 × 192 | | | | |
|---|--|--|--|--|
| | | | | |
| Vanadium Oxide Uncooled Focal Plane Arrays | | | | |
| 12 μm | | | | |
| less than 40 mk (@25°C), F#=1.0 | | | | |
| 3.33 mrad | | | | |
| 50.0° × 37.3° (H × V) | | | | |
| 0.5 m | | | | |
| F1.0 | | | | |
| 3.6 mm | | | | |
| 8 μm to 14 μm | | | | |
| | | | | |
| 2688 × 1520 | | | | |
| 1/2.7" Progressive Scan CMOS | | | | |
| Color: 0.05 Lux @ (F1.6, AGC ON), B/W: 0.01 Lux @ (F1.6, AGC ON) | | | | |
| 83.7° × 43°(H × V) | | | | |
| F1.6 | | | | |
| 120 dB | | | | |
| 1s to 1/100,000s | | | | |
| IR cut filter with auto switch | | | | |
| 4.27 mm | | | | |
| | | | | |
| 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules. | | | | |
| 3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line). | | | | |
| -20°C to 650°C (-4°F to 1,202°F) | | | | |
| Max (± 2°C, ± 2%) | | | | |
| | | | | |
| up to 30m | | | | |
| Automatically adjusted | | | | |
| | | | | |
| 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)] | | | | |
| | | | | |



| | Thermal: | | | |
|---------------------------|--|--|--|--|
| | 25 fps (704 × 576, 640 × 512, 320 × 240) | | | |
| Sub stream | Optical: | | | |
| | 50 Hz: 25 fps (704 × 576, 352 × 288) | | | |
| | 60 Hz: 30 fps (704 × 480, 352 × 240) | | | |
| | H.265/H.264/MJPEG, H.265+/H.264+ encoding with Baseline/Main/High | | | |
| Video compression | 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, | | | |
| FIOLOCOIS | 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 | | | |
| 0 | 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 | | | |
| | 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: $600~\Omega$ | | | |
| Ethernet | 1 RJ45 10M/100M Self-adaptive Ethernet interface | | | |
| CD Marrage Cond | 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 | | | |
| Drotaction Level | IP68 Standard,TVS 6000V Lightning protection, surge protection, voltage | | | |
| Protection Level | 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 | VCA Range | Temperature | Temperature | Smoke Detection |
|----------------------|--------------------|-----------------------|-----------------------|-----------------|
| (Vehicles: 1.4 x 4.0 | (Humans: 1.8 x 0.6 | Measurement | Measurement | (Object: 0.5m x |
| m) | m) | (Object: 0.2 x 0.2 m) | (Object: 0.5 x 0.5 m) | 0.5m) |
| 84 m | 28 m | 12 m | 30 m | 12 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.

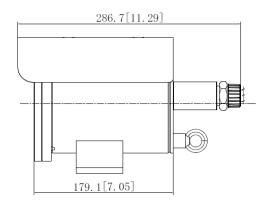
| Detection Range | Detection Range | Recognition | Recognition | Identification | Identification |
|------------------------|------------------------|------------------|----------------|------------------|----------------|
| (Vehicles: 1.4 x | (Humans: 1.8 x | Range (Vehicles: | Range (Humans: | Range (Vehicles: | 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 |

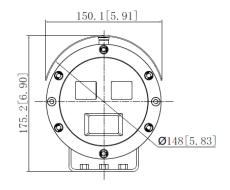
Available Model

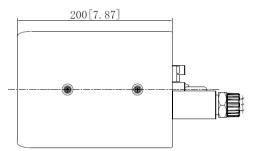
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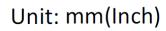


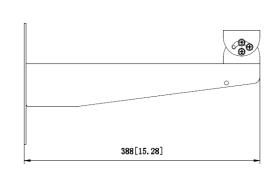
Dimension

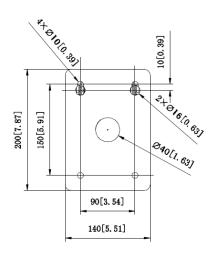


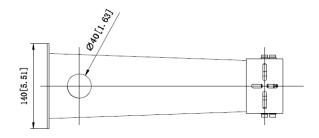






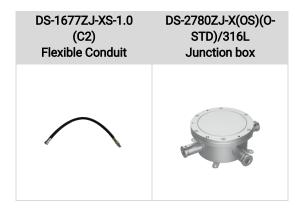








- Accessory
- Optional



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