

DS-2TD2568T-5/G0/T1Y Explosion-Proof Thermal Camera

















Hikvision DS-2TD2568T-5/G0/T1Y 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 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.

- High sensitivity sensor with 640×512 resolution
- NETD is less than 25 mk (@25° C, F#=1.0)
- Leading thermal image processing technology: Adaptive AGC, DDE, 3D DNR
- Powerful perimeter protection functions, based on deep learning algorithm: Line crossing, intrusion, region entrance & exit
- Buit-in TPM2.0 encryption module for cybersecurity
- 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

| VCAup to 8 VCA rules.Temperature Measurement3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line).Temperature Range-20°C to 650°C (-4°F to 1,202°F)Temperature AccuracyMax (± 2°C, ± 2%)Fire DetectionDynamic fire detection, up to 10 fire points detectableSmoke DetectionSupport smoke detection on optical channelInterfaceAlarm Input2-ch inputs (0 to 5 VDC)Alarm Output2-ch relay outputs, alarm response actions configurableAlarm ActionSD Card Record/Relay Output/Smart capture/FTP upload/Email linkageAudio InputMic in/Line in interface. Line input: 2 to 2.4V[p-p], output impedance:1 KΩ ± 10% | Thermal Module | | | | | | |
|--|-------------------------|--|--|--|--|--|--|
| Pixel Pitch 12 μm NETD ≤ 25 mK (@25° C,F# = 1, 0) Focal Length 5.1 mm IFOV 2.35 mrad Aperture F1.0 Field of View 90° × 67.2° (H × V) Digital Zoom ×2, x4 Min. Focusing Distance 1 m Optical Module 1 m Image Sensor 1/2.7° Progressive Scan CMOS Resolution 2688 × 1520 Min. Illumination Color: 0.05 Lux @ (F1.6, AGC ON), B/W: 0.01 Lux @ (F1.6, AGC ON) Field of View 114.6° × 63.8° (H × V) Focal Length 2.27 mm WDR 120 dB Image Effect Verection Picture in Picture Display partial image of thermal channel on the full screen of optical channel Target Coloration Yes. Supported in white hot and black hot mode. EIS Thermal channel supports EIS, exclusive with all smart functions Illuminator IR IR Distance Up to 30m IR Intensity and Angle Automatically adjusted Smart Function VCA VCA 4 VCA r | Image Sensor | Vanadium Oxide Uncooled Focal Plane Arrays | | | | | |
| NETD ≤ 25 mK (@25° C,F# = 1, 0) Focal Length 5.1 mm IFOV 2.35 mrad Aperture F1.0 Field of View 90° × 67.2° (H × V) Digital Zoom x2, x4 Min. Focusing Distance 1 m Optical Module Image Sensor 1/2.7° Progressive Scan CMOS Resolution 2688 x 1520 Min. Illumination Color: 0.05 Lux @ (F1.6, AGC ON), B/W: 0.01 Lux @ (F1.6, AGC ON) Field of View 114.6° x 63.8° (H × V) Focal Length 2.27 mm WDR 120 dB Image Effect Picture in Picture Display partial image of thermal channel on the full screen of optical channel Target Coloration Yes. Supported in white hot and black hot mode. EIS Thermal channel supports EIS, exclusive with all smart functions Illuminator IR Intensity and Angle Automatically adjusted Smart Function VCA 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting) up to 8 VCA rules Smart Function 3 temperature measurement rule type | Resolution | 640 x 512 | | | | | |
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| VCAup to 8 VCA rules.Temperature Measurement3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line).Temperature Range-20°C to 650°C (-4°F to 1,202°F)Temperature AccuracyMax (± 2°C, ± 2%)Fire DetectionDynamic fire detection, up to 10 fire points detectableSmoke DetectionSupport smoke detection on optical channelInterfaceAlarm Input2-ch inputs (0 to 5 VDC)Alarm Output2-ch relay outputs, alarm response actions configurableAlarm ActionSD Card Record/Relay Output/Smart capture/FTP upload/Email linkageAudio InputMic in/Line in interface. Line input: 2 to 2.4V[p-p], output impedance:1 KΩ ± 10% | Smart Function | | | | | | |
| Temperature Measurement line). Temperature Range -20°C to 650°C (-4°F to 1,202°F) Temperature Accuracy Max (\pm 2°C, \pm 2%) Fire Detection Dynamic fire detection, up to 10 fire points detectable Smoke Detection Support smoke detection on optical channel Interface 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 Mic in/Line in interface. Line input: 2 to 2.4V[p-p], output impedance:1 K Ω \pm 10% | VCA | 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules. | | | | | |
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| Fire Detection Dynamic fire detection, up to 10 fire points detectable Smoke Detection Support smoke detection on optical channel Interface 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 Mic in/Line in interface. Line input: 2 to 2.4V[p-p], output impedance:1 K $\Omega \pm 10\%$ | Temperature Range | -20°C to 650°C (-4°F to 1,202°F) | | | | | |
| Smoke Detection Support smoke detection on optical channel Interface 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 Mic in/Line in interface. Line input: 2 to 2.4V[p-p], output impedance:1 KΩ ± 10% | Temperature Accuracy | Max (± 2°C, ± 2%) | | | | | |
| Interface 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 Mic in/Line in interface. Line input: 2 to 2.4V[p-p], output impedance:1 KΩ ± 10% | Fire Detection | Dynamic fire detection, up to 10 fire points detectable | | | | | |
| 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 Mic in/Line in interface. Line input: 2 to 2.4V[p-p], output impedance:1 K Ω ± 10% | Smoke Detection | Support smoke detection on optical channel | | | | | |
| Alarm Output 2-ch relay outputs, alarm response actions configurable SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage Audio Input Mic in/Line in interface. Line input: 2 to 2.4V[p-p], output impedance:1 K Ω ± 10% | Interface | | | | | | |
| Alarm Action SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage Audio Input Mic in/Line in interface. Line input: 2 to 2.4V[p-p], output impedance:1 $K\Omega \pm 10\%$ | Alarm Input | 2-ch inputs (0 to 5 VDC) | | | | | |
| Audio Input Mic in/Line in interface. Line input: 2 to 2.4V[p-p], output impedance:1 $K\Omega \pm 10\%$ | Alarm Output | 2-ch relay outputs, alarm response actions configurable | | | | | |
| · · · · · · · · · · · · · · · · · · · | Alarm Action | SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage | | | | | |
| Audia Outrast | Audio Input | Mic in/Line in interface. Line input: 2 to 2.4V[p-p], output impedance:1 $K\Omega \pm 10\%$ | | | | | |
| Audio Output Linear Level; Impedance: 600 Ω | Audio Output | Linear Level; Impedance: 600 Ω | | | | | |



| Communication Interface | 1, RJ45 10 M/100 M Self-adaptive Ethernet interface. | | | | |
|---|--|--|--|--|--|
| N | 1, RS-485 interface (half duplex) | | | | |
| Network | | | | | |
| Main Stream | Thermal: 25 fps (1280 × 720, 704 × 576, 640 × 512, 352 × 288) Optical: 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) | | | | |
| Sub stream | Thermal: 25 fps (704 × 576, 640 × 512, 384 × 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 | | | | | |
| 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 | 33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, 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.11W | | | | |
| Work Temperature/Humidity | -40°C to 60°C (-40°F to 140°F), 95% or less | | | | |
| Protection Level IP68 Standard,TVS 6000V Lightning protection, surge protection, voltage transient protection | | | | | |
| Dimensions | 290.7 mm × 177.5 mm × 152.0 mm (11.44" × 6.99" × 5.98") | | | | |
| Weight | Approx. 6.5 kg (14.33 lb) | | | | |
| | | | | | |



| Approval | |
|----------------------------|--|
| | CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, |
| EMC | EN50130-4: 2011+A1: 2014); |
| LIVIC | 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 |
| 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) | Fire detection(Object : 0.2 x 0.2m) | Smoke detection (Object: 0.5 x 0.5m) |
|---|---------------------------------------|---|---|-------------------------------------|---|
| 150 m | 50 m | 15 m | 40 m | 60 m | 7 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.

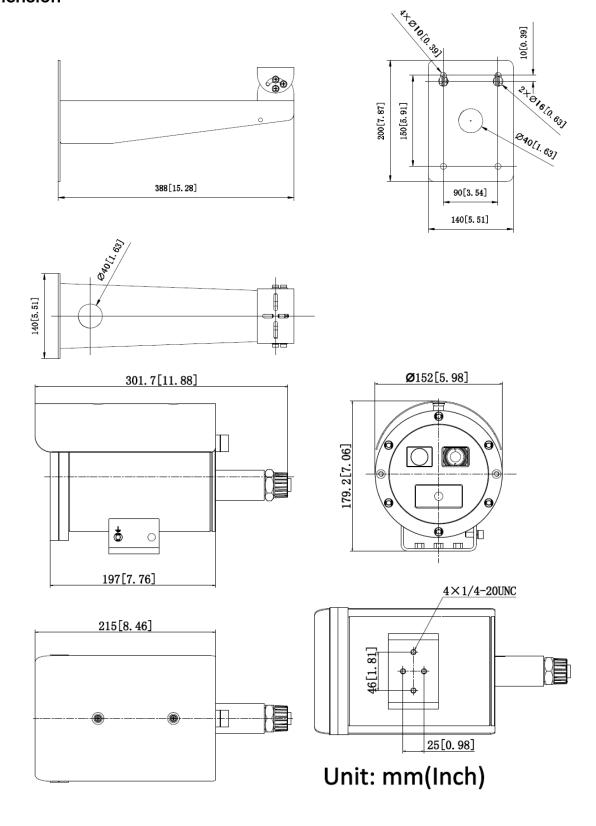
| Detection Range | Detection Range | Recognition | Recognition | Identification | Identification |
|------------------------|-----------------|------------------|----------------|------------------|----------------|
| (Vehicles: 1.4 x | (Humans: 1.8 x | Range (Vehicles: | Range (Humans: | Range (Vehicles: | 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) |
| 652 m | 213 m | 163 m | 53 m | 81 m | 27 m |

Available Model

DS-2TD2568T-5/G0/T1Y

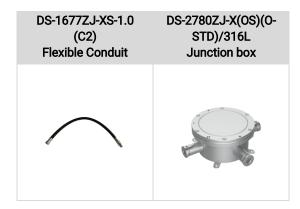


Dimension





- 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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