

## DS-2TD2167-15/PY

### Anti-corrosion Thermal Network Bullet Camera



Hikvision DS-2TD2167-15/PY Anti-corrosion Thermal Network Bullet Camera is applied to perimeter protection and fire-prevention purposes in critical infrastructures such as: airport, railway, prison, power station, 4S stores, and so on. With the vanadium oxide uncooled focal plane sensor, it enhances the thermal image quality. It adopts anti-corrosion coating to meet the requirements of used in anti-corrosion environment.

#### Key Feature

- Powerful perimeter protection functions, based on intelligent algorithm: Line crossing, intrusion, region entrance & exit
- Temperature exception alarm for fire prevention
- Fire detection algorithm
- 640 × 512 resolution 17 μm, VOx UFPA, NETD ≤ 35 mK (25°C, F# = 1.0)
- Image processing technology: Linear, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR

## ▪ Specification

| Thermal Module          |   |
|-------------------------|---|
| Image Sensor            | Vanadium Oxide Uncooled Focal Plane Arrays  |
| Resolution              | 640 × 512   |
| Pixel Interval          | 17 μm   |
| Response Waveband       | 8 μm to 14 μm   |
| NETD                    | ≤ 35 mK (@ 25°C, F# = 1.1)  |
| Focal Length            | 15 mm   |
| IFOV                    | 1.13 mrad   |
| Aperture                | F1.0  |
| Field of View           | 42.5° × 33.6° (H × V)   |
| Min. Focusing Distance  | 2.5 m   |
| Digital Zoom            | × 2, × 4, × 8   |
| Image Effect            |   |
| Target Coloration       | Yes. Supported in white hot and black hot mode.   |
| Smart Function          |   |
| VCA                     | 4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total.                       |
| Temperature Measurement | 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line).  |
| Temperature Range       | -20°C to 150°C (-4°F to 302°F)  |
| Temperature Accuracy    | ± 8°C (± 14.4°F)  |
| Fire Detection          | Dynamic fire point detection, up to 10 fire points detectable.  |
| Video and Audio         |   |
| Main Stream             | 25 fps (1280 × 720, 704 × 576, 640 × 512, 352 × 288)  |
| Sub-stream              | 25 fps (704 × 576, 640 × 512, 352 × 288)  |
| Third Stream            | 25 fps (1280 × 720, 704 × 576, 640 × 512, 352 × 288)  |
| Video Compression       | Main stream: H.265+/H.265/H.264+/ H.264<br>Sub-stream: H.265/H.264/MJPEG  |
| Audio Compression       | G.711u/G.711a/G.722.1/MP2L2/G.726/PCM   |
| Network                 |   |
| Protocols               | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, SSL |
| Network Storage         | microSD/SDHC/SDXC card (256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)                             |
| API                     | Open-ended API, supporting ISAPI, HIKVISION SDK, and third-party management platform, open network video interface, ONVIF           |
| Simultaneous Live View  | Up to 20 channels   |
| User/Host level         | Up to 32 users, 3 levels: Administrator, Operator, User   |
| Security                | User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering            |
| Client                  | iVMS-4200, Hik-Connect  |
| Web Browser             | IE 10-11, Chrome 41-44, Firefox 30-51   |
| 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 alarm/white light alarm  |
| Audio Input               | 1, 3.5 mm Mic in/Line in interface.<br>Line input: 2 to 2.4 V [p-p], output impedance: 1 K $\Omega$ $\pm$ 10%  |
| Audio Output              | Linear Level; Impedance: 600 $\Omega$  |
| Communication Interface   | 1, RJ45 10 M/100 M self-adaptive Ethernet interface.<br>1, RS-485 interface  |
| <b>General</b>            |  |
| Web Client Language       | 32 languages<br>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) |
| Power                     | 12 VDC $\pm$ 20%, two-core terminal block<br>PoE (802.3af, class 3)  |
| Power Consumption         | 12 VDC $\pm$ 20%: 0.4 A, max. 4.5 W<br>PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, max. 5 W  |
| Work Temperature/Humidity | -40°C to 65°C (-40°F to 149°F)<br>95% or less  |
| Protection Level          | IP67 Standard<br>TVS 6000 V lightning protection, surge protection, voltage transient protection, Ik10 rated housing   |
| Dimension                 | 351.3 mm $\times$ 113.5 mm $\times$ 115.2 mm (13.83" $\times$ 4.47" $\times$ 4.53")  |
| Weight                    | Approx. 1.77 kg (3.90 lb)  |

## ▪ DRI Range Table

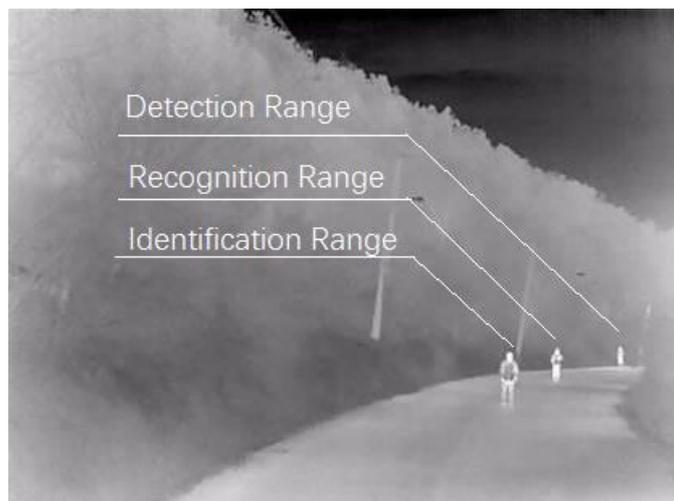
\* The table is only for reference and the performance may vary according to different environment.

\* 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<br>(Vehicles: 1.4 ×<br>4.0 m) | Detection Range<br>(Humans: 1.8 ×<br>0.5 m) | Recognition<br>Range (Vehicles:<br>1.4 × 4.0 m) | Recognition<br>Range (Humans:<br>1.8 × 0.5 m) | Identification<br>Range (Vehicles:<br>1.4 × 4.0 m) | Identification<br>Range (Humans:<br>1.8 × 0.5 m) |
|---|---|---|---|--|--|
| 1353 m  | 441 m                                       | 338 m   | 110 m   | 169 m  | 55 m   |

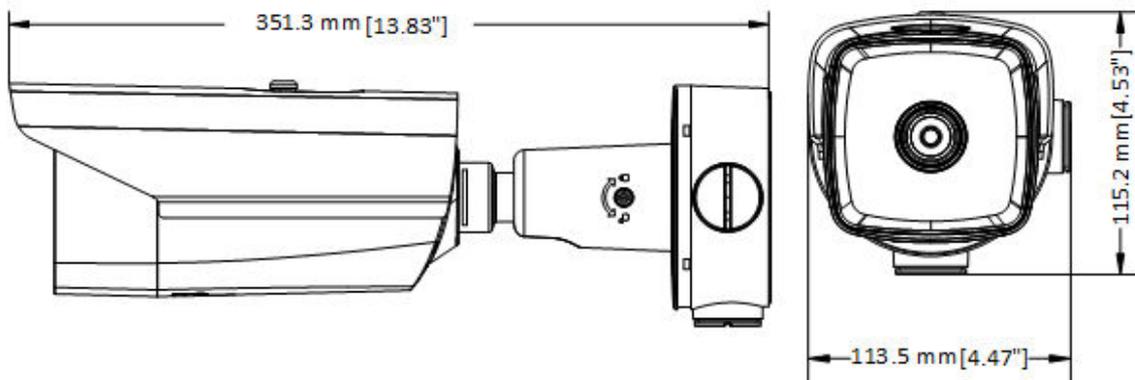
## ▪ Smart Function Table

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

| VCA Range<br>(Vehicles: 1.4 ×<br>4.0 m) | VCA Range<br>(Humans: 1.8 ×<br>0.5 m) | Temperature<br>Measurement (Object:<br>2 × 2 m) | Temperature<br>Measurement (Object:<br>1 × 1 m) | Fire Detection<br>(Object: 0.2 × 0.2<br>m) | Smoking<br>Detection |
|---|---------------------------------------|---|---|--|----------------------|
| 309 m                                   | 110 m                                 | 351 m   | 177 m   | 150 m                                      | 15 m                 |

## ▪ Available Model

DS-2TD2167-15/PY

**▪ Dimension**

Unit:mm[Inch]

**▪ Accessory****▪ Included**

DS-1260ZJ-AC#SA  
Junction box

**▪ Optional**

DS-1275ZJ-Y  
Vertical pole mount

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**Headquarters**

No.555 Qianmo Road, Binjiang District,  
Hangzhou 310051, China  
T +86-571-8807-5998  
www.hikvision.com



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