

## DS-2TD2637-25/P Thermal & Optical Bi-spectrum Network Bullet Camera

DeepinView<sup>series</sup>



Hikvision DS-2TD2637-25/P Thermal & Optical Bi-spectrum Network Bullet Camera, equipped with built-in GPU which supports intelligent behavior analysis algorithm, can realize high-precision VCA detection and real-time alarm. It is applied to perimeter protection and fire prevention purposes in critical infrastructures such as solar park, substation, airport, recycling site, warehouses and so on. The pre-alarm system helps you discover unexpected events immediately and protects your property.

### Key Feature

- Behavior analysis function, based on deep learning algorithm: line crossing, intrusion, region entrance & exit
- Temperature exception alarm for fire prevention
- Fire detection algorithm
- 384 × 288 resolution 17  $\mu$ m, VOx UFPA, NETD  $\leq$  35 mK (25 °C, F# = 1.0)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR



## Specification

| Thermal Module                                 |                                                                                                               |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Image Sensor                                   | Vanadium Oxide Uncooled Focal Plane Arrays                                                                    |
| Resolution                                     | 384 × 288                                                                                                     |
| Pixel Interval                                 | 17 μm                                                                                                         |
| Response Waveband                              | 8 μm to 14 μm                                                                                                 |
| NETD (Noise Equivalent Temperature Difference) | ≤ 35 mk (25 °C, F# = 1.0)                                                                                     |
| Focal Length                                   | 25 mm                                                                                                         |
| IFOV                                           | 0.68 mrad                                                                                                     |
| Field of View                                  | 14.9° × 11.2° (H × V)                                                                                         |
| Min. Focusing Distance                         | 13 m                                                                                                          |
| Aperture                                       | F 1.0                                                                                                         |
| Digital Zoom                                   | ×2, ×4, ×8                                                                                                    |
| Optical Module                                 |                                                                                                               |
| Image Sensor                                   | 1/2.7" Progressive Scan CMOS                                                                                  |
| Resolution                                     | 2688 × 1520                                                                                                   |
| Min. Illumination                              | Color: 0.0089 Lux @(F1.6, AGC ON), B/W: 0.0018 Lux @(F1.6, AGC ON)                                            |
| Shutter Speed                                  | 1 s to 1/100,000 s                                                                                            |
| Focal Length                                   | 12 mm                                                                                                         |
| Field of View                                  | 25.25° × 14.44° (H × V)                                                                                       |
| Aperture                                       | F1.6                                                                                                          |
| WDR                                            | 120 dB                                                                                                        |
| Image Effect                                   |                                                                                                               |
| Picture in Picture                             | Display partial image of thermal channel on the full screen of optical channel                                |
| Bi-spectrum Image Fusion                       | Display the details of optical channel on thermal channel                                                     |
| Target Coloration                              | Yes. Supported in white hot and black hot mode.                                                               |
| Smart Function                                 |                                                                                                               |
| VCA (Video Content Analysis)                   | 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 detection, up to 10 fire points detectable.                                                      |
| Illuminator                                    |                                                                                                               |
| IR Distance                                    | Up to 100 m                                                                                                   |
| IR Intensity and Angle                         | Automatically adjusted                                                                                        |

## Video & Audio

|                   |                                                                                                                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main Stream       | Optical channel<br>50 HZ: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 HZ: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>Thermal channel<br>25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240) |
| Sub-stream        | Optical channel<br>50 HZ: 25 fps (704 × 576, 352 × 288, 176 × 144)<br>60 HZ: 30 fps (704 × 480, 352 × 240, 176 × 120)<br>Thermal channel<br>25 fps (704 × 576, 352 × 288, 320 × 240)                                  |
| Video Compression | Main Stream: H.265/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                                 |
| Network Storage        | MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)                                                  |
| API                    | ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profile G, Profile T)                                                                 |
| 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(EAP-MD5, EAP-TLS), access control, IP address filtering                    |
| Client                 | iVMS-4200, Hik-Connect                                                                                                                                         |
| Web Browser            | Live view (plug-in allowed) : Internet Explorer 11<br>Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 +<br>Local service : Chrome 57.0+, Firefox 52.0 + |

## Interface

|                         |                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------|
| Alarm Input             | 2-ch inputs (0-5 VDC)                                                                            |
| Alarm Output            | 2-ch relay outputs, alarm response actions configurable                                          |
| Alarm Action            | SD recording/relay output/smart capture/FTP upload/email linkage                                 |
| Audio Input             | 1, 3.5 mm Mic in/Line in interface<br>Line input: 2 to 2.4 V [p-p], output impedance: 1 KΩ ± 10% |
| Audio Output            | Linear level, impedance: 600 Ω                                                                   |
| Communication Interface | 1, RJ45 10 M/100 M self-adaptive Ethernet interface<br>1, RS-485 interface                       |

## General

|                              |                                                                                                                                                                                                                                                                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Menu 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                        | 24 VAC± 25%, 12 VDC± 25%, two-core terminal block<br>PoE (802.3af, class 3)                                                                                                                                                                                                                                                                  |
| Power Consumption            | 18 VAC to 30 VAC: 0.38 A to 0.22 A, max. 9 W<br>9 VDC to 15 VDC: 0.63 A to 1.06 A, max. 9 W<br>PoE (802.3af, class 3): 44 V to 57 V, 0.22 A to 0.17 A, max. 9.5 W                                                                                                                                                                            |
| Working Temperature/Humidity | Temperature: -40 °C to 65 °C (-40 °F to 149 °F)<br>Humidity: 95% or less                                                                                                                                                                                                                                                                     |
| Protection Level             | IP66 Standard<br>TVS 6000 V lightning protection, surge protection, voltage transient protection                                                                                                                                                                                                                                             |
| Dimensions                   | 376.1 mm × 119.1 mm × 118.1 mm (14.81" × 4.68" × 4.65")                                                                                                                                                                                                                                                                                      |
| Weight                       | Approx. 1.82 kg (4.01 lb)                                                                                                                                                                                                                                                                                                                    |

## DRI Range Table

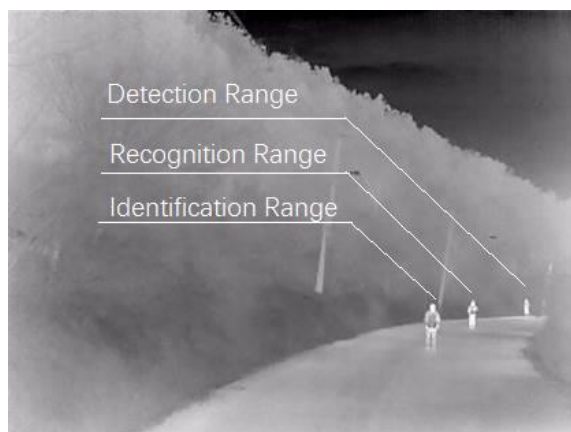
\* The table is only for reference and the performance may vary according to different environment.

\* 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 × 4.0 m) | Detection Range<br>(Humans: 1.8 × 0.5 m) | Recognition Range (Vehicles: 1.4 × 4.0 m) | Recognition Range (Humans: 1.8 × 0.5 m) | Identification Range (Vehicles: 1.4 × 4.0 m) | Identification Range (Humans: 1.8 × 0.5 m) |
|--------------------------------------------|------------------------------------------|-------------------------------------------|-----------------------------------------|----------------------------------------------|--------------------------------------------|
| 2255 m                                     | 735 m                                    | 564 m                                     | 184 m                                   | 282 m                                        | 92 m                                       |

## Smart Function Table

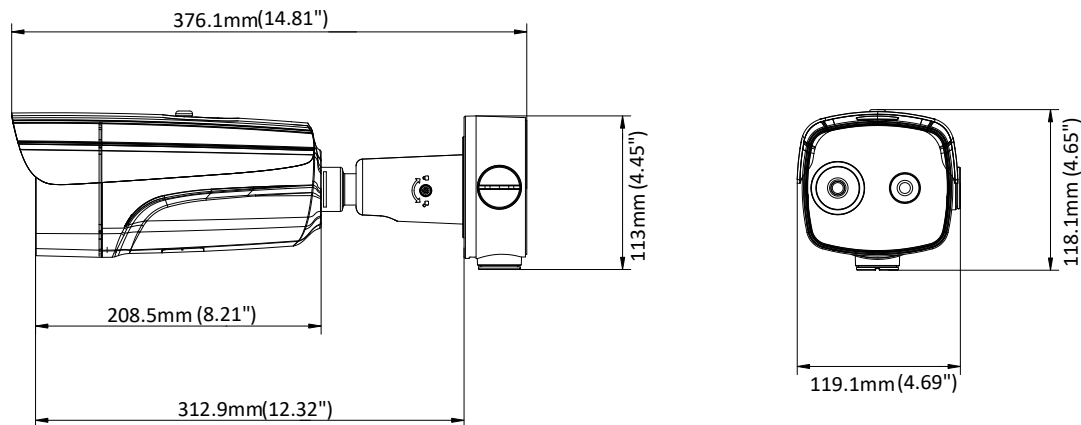
\* The table is only for reference and the performance may vary according to different environment.

| VCA Range<br>(Vehicles: 1.4 × 4.0 m) | VCA Range<br>(Humans: 1.8 × 0.5 m) | Temperature Measurement<br>(Object: 2 × 2 m) | Temperature Measurement<br>(Object: 1 × 1 m) | Fire Detection<br>(Object: 2 × 2 m) | Fire Detection<br>(Object: 1 × 1 m) |
|--------------------------------------|------------------------------------|----------------------------------------------|----------------------------------------------|-------------------------------------|-------------------------------------|
| 515 m                                | 184 m                              | 585 m                                        | 295 m                                        | 1470 m                              | 735 m                               |

## Available Model

DS-2TD2637-25/P

## Dimension



## ▪ Accessory



DS-1275ZJ-S-SUS  
Vertical Pole Mount



DS-1276ZJ-SUS  
Corner Mount

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