

**DS-2TD2608-2/QA****Thermal & Optical Bi-spectrum Network Bullet Camera**

Hikvision DS-2TD2608-2/QA Thermal & Optical Bi-spectrum Network Bullet Camera supports video analysis for perimeter protection and built-in strobe light and audio warning. The camera also combines ColorVu technology to provide 24/7 vivid colorful images. These camera series can be widely applied to villas, communities, parks, parking lots, warehouses, construction sites, manufacturing workshops, etc.

**Key Feature**

- 96 × 72 resolution, 12 μm, VOx UFPA, NETD < 55 mK (25°C, F1.0)
- Video content analysis: vehicle/human classification
- Image processing technology: linear, histogram, self-adaptive thermal AGC mode, DDE, 3D DNR
- High quality detector with 10 years guarantee

## ▪ Specification

| Thermal Module            |                                                                                                                                                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor              | Vanadium Oxide Uncooled Focal Plane Arrays                                                                                                                                                                 |
| Resolution                | 96 × 72                                                                                                                                                                                                    |
| Pixel Pitch               | 12 μm                                                                                                                                                                                                      |
| Spectral Range            | 8 μm to 14 μm                                                                                                                                                                                              |
| NETD                      | < 55 mK (25°C, F1.0)                                                                                                                                                                                       |
| Focal Length              | 2.6 mm                                                                                                                                                                                                     |
| IFOV                      | 4.62 mrad                                                                                                                                                                                                  |
| Field of View             | 25.0° × 18.75° (H × V)                                                                                                                                                                                     |
| Min. Focusing Distance    | 0.05 m                                                                                                                                                                                                     |
| Aperture                  | F1.0                                                                                                                                                                                                       |
| Digital Zoom              | ×2, ×4                                                                                                                                                                                                     |
| Optical Module            |                                                                                                                                                                                                            |
| Image Sensor              | 1/1.8" Progressive Scan CMOS                                                                                                                                                                               |
| Resolution                | 2688 × 1520                                                                                                                                                                                                |
| Min. Illumination         | 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with Light                                                                                                                                                              |
| Shutter Speed             | 1 s to 1/100,000 s                                                                                                                                                                                         |
| Focal Length              | 6 mm                                                                                                                                                                                                       |
| Field of View             | 56.0° × 30° (H × V)                                                                                                                                                                                        |
| Aperture (Range)          | F1.0                                                                                                                                                                                                       |
| WDR                       | 120 dB                                                                                                                                                                                                     |
| Image Effect              |                                                                                                                                                                                                            |
| Target Coloration         | Yes. Supported in white hot and black hot mode.                                                                                                                                                            |
| Illuminator               |                                                                                                                                                                                                            |
| Light Supplement          | Warm Light                                                                                                                                                                                                 |
| Light Supplement Distance | 30 m                                                                                                                                                                                                       |
| Audible and Visual Alarm  |                                                                                                                                                                                                            |
| White Light Range         | Up to 30 m                                                                                                                                                                                                 |
| Visual Alarm              | Yes. White light alarm with adjustable flashing frequencies                                                                                                                                                |
| Audio alarm               | Yes<br>1 preset voice alerts<br>6 importable user-defined voice alerts                                                                                                                                     |
| Smart Function            |                                                                                                                                                                                                            |
| VCA                       | 4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total.                                                                                              |
| Video and Audio           |                                                                                                                                                                                                            |
| Main Stream               | Thermal:<br>25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240)<br><br>Optical:<br>50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) |

|                              |                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sub-stream                   | Thermal:<br>25 fps (704 × 576, 352 × 288, 320 × 240)<br>Optical:<br>50 Hz: 25 fps (704 × 576, 352 × 288)<br>60 Hz: 30 fps (704 × 480, 352 × 240)                                                                                                                                                                                          |
| Video Compression            | Main Stream: H.265/H.264<br>Sub-Stream: H.265/H.264/MJPEG                                                                                                                                                                                                                                                                                 |
| Audio Compression            | G.722.1/G.711ulaw/G.711alaw/MP2L2/G.726/PCM                                                                                                                                                                                                                                                                                               |
| <b>Network</b>               |                                                                                                                                                                                                                                                                                                                                           |
| Protocols                    | IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP,RTP,TCP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour,SFTP,SRTP,SSL                                                                                                                                                                                                          |
| Network Storage              | MicroSD/SDHC/SDXC card (up to 256 GB) local storage, NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)                                                                                                                                                                                                                                |
| API                          | ISAPI, HIKVISION SDK, and third-party management platform, Open Network Video Interface (Profile S, Profile G)                                                                                                                                                                                                                            |
| Simultaneous Live View       | Up to 20 channels                                                                                                                                                                                                                                                                                                                         |
| User/Host level              | Up to 32 users, 3 levels: Administrator, Operator, User                                                                                                                                                                                                                                                                                   |
| Security                     | User authentication (ID and Password), 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 +,macOS10.13 +,Safari 12+<br>Local service : Chrome 57.0 +, Firefox 52.0 +                                                                                                                                                   |
| <b>Interface</b>             |                                                                                                                                                                                                                                                                                                                                           |
| Alarm Input                  | 2, alarm input (0 to 5 VDC)                                                                                                                                                                                                                                                                                                               |
| Alarm Output                 | 2, alarm output (alarm response actions configurable)                                                                                                                                                                                                                                                                                     |
| Alarm Action                 | Linkage Method Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, alarm output, Email                                                                                                                        |
| Communication Interface      | 1, RJ45 10 M/100 M Self-adaptive Ethernet interface.                                                                                                                                                                                                                                                                                      |
| <b>General</b>               |                                                                                                                                                                                                                                                                                                                                           |
| Web Client Language          | 32 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) |
| Power Supply                 | 12 VDC ± 25%, ϕ 5.5 mm coaxial power plug<br>PoE (802.3af, class 3)                                                                                                                                                                                                                                                                       |
| Power Consumption            | 12 VDC ± 25%: 0.7 A, Max.8.5 W<br>PoE (802.3af, class 3): 36 V to 57 V, 0.24 A to 0.15 A, Max. 8.5 W                                                                                                                                                                                                                                      |
| Working Temperature/Humidity | Temperature: -40°C to 65°C (-40°F to 149°F)<br>Humidity: 95% or less                                                                                                                                                                                                                                                                      |
| Protection Level             | IP67 Standard<br>TVS 4000V lightning protection, surge protection, voltage transient protection<br>IK10-rated housing                                                                                                                                                                                                                     |
| Dimensions                   | 211.5 mm × 105 mm × 105 mm (8.32" × 4.13" × 4.13")                                                                                                                                                                                                                                                                                        |
| Weight                       | 869.2 g (1.92 lb)                                                                                                                                                                                                                                                                                                                         |

## DRI Range Table

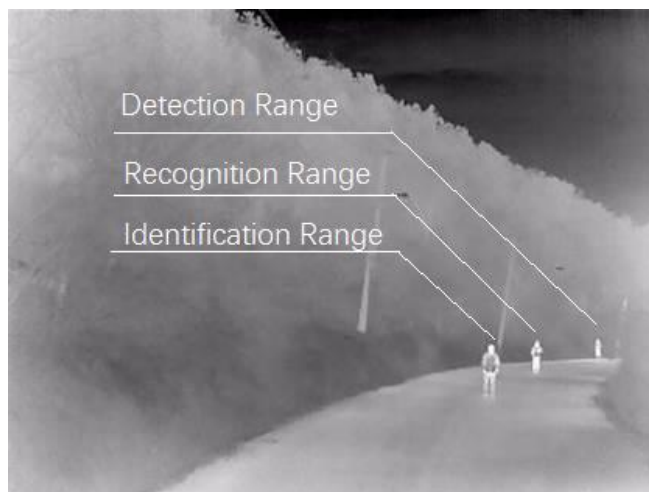
\* The table is only for reference and the performance may vary according to different environment.

\* The optimal 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<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) |
|--------------------------------------------|------------------------------------------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------------|--------------------------------------------------|
| 332 m                                      | 108 m                                    | 83 m                                            | 27 m                                          | 42 m                                               | 14 m                                             |

## Smart Function Table

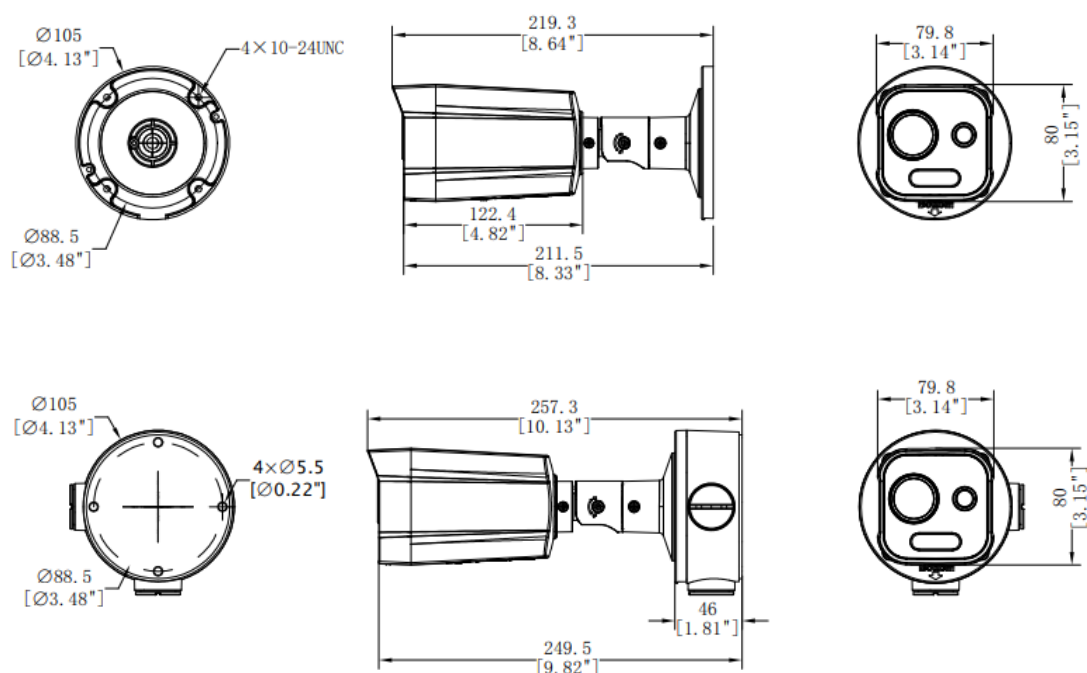
\* The table is only for reference and the performance may vary according to different environment.

| VCA Range (Vehicles: 1.4 × 4.0 m) | VCA Range (Humans: 1.8 × 0.5 m) |
|-----------------------------------|---------------------------------|
| 63 m                              | 21 m                            |

## ▪ Available Model

DS-2TD2608-2/QA

## Dimension



Unit:mm[Inch]

## Accessory

### Included



DS-1260ZJ

### Optional



DS-1275ZJ-S-SUS



DS-1276ZJ-SUS

**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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