# DS-2TD2138-13/QY
## Anti-corrosion Thermal Network Bullet Camera

Hikvision DS-2TD2138-13/QY 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

- 384 × 288 resolution, 12 μm, VOx UFPA, NETD < 35 mK (25°C, F1.0)
- Temperature exception alarm for fire prevention, -20°C to 150°C (-4°F to 302°F), ± 8°C (± 14.4°F)
- 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 | 384 × 288 |
| Pixel Pitch | 12 μm |
| Spectral Range | 8 μm to 14 μm |
| NETD | < 35 mK (25°C, F1.0) |
| Focal Length | 13 mm |
| IFOV | 0.92 mrad |
| Field of View | 20° × 15° (H × V) |
| Min. Focusing Distance | 2 m |
| Aperture | F1.0 |
| 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) |
| **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.264<br>Sub-Stream: H.265/H.264/MJPEG<br>Third Stream: H.265/H.264/MJPEG |
| Audio Compression | G.722.1/G.711ulaw/G.711alaw/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, SRTP, SFTP, SSL |
| API | ISAPI, HIKVISION SDK, and third-party management platform, Open Network Video Interface,ONVIF (Profile S, Profile G) |
| Security | User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering |
| Simultaneous Live View | Up to 20 channels |
| 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+ |
| Network Storage | MicroSD/SDHC/SDXC card (up to 256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) |
| User/Host level | Up to 32 users, 3 levels: Administrator, Operator, User |

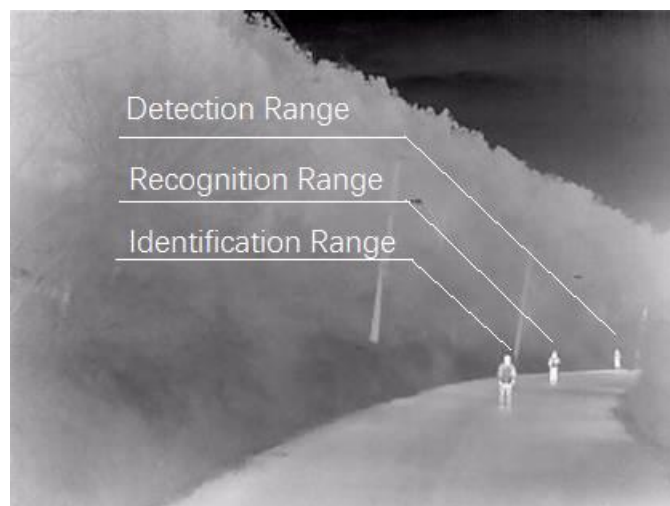| Interface | |
|---|---|
| Analog Output | 1.0 V [p-p]/75Ω, PAL/NTSC/BNC |
| Alarm Input | 2, alarm input (0 to 5 VDC) |
| Alarm Output | 2, alarm output (alarm response actions configurable) |
| Alarm Action | SD recording/Relay output/Smart capture/FTP upload/Email linkage |
| Audio Input | 1, 3.5 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 (half duplex) |
| **General** | |
| 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 Supply | 24 VAC ± 25%, 12 VDC ± 25%, two-core terminal block<br>PoE (802.3af, class 3) |
| Power Consumption | 24 VAC ± 25%: 0.13 A to 0.22 A, Max. 5 W<br>12 VDC ± 25%: 0.37 A to 0.61 A, Max. 5 W<br>PoE (802.3af, class 3): 44 V to 57 V: 0.1 A to 0.13 A, Max. 5.5 W |
| Working Temperature/Humidity | Temperature: -40°C to 65°C (-40°F to 149°F)<br>Humidity: 90% or less |
| Protection Level | IP67 Standard<br>TVS 6000V lightning protection, surge protection, voltage transient protection, IK10-rated housing |
| Dimensions | 351.3 mm × 113.5 mm × 115.2 mm (13.83" × 4.47" × 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 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.



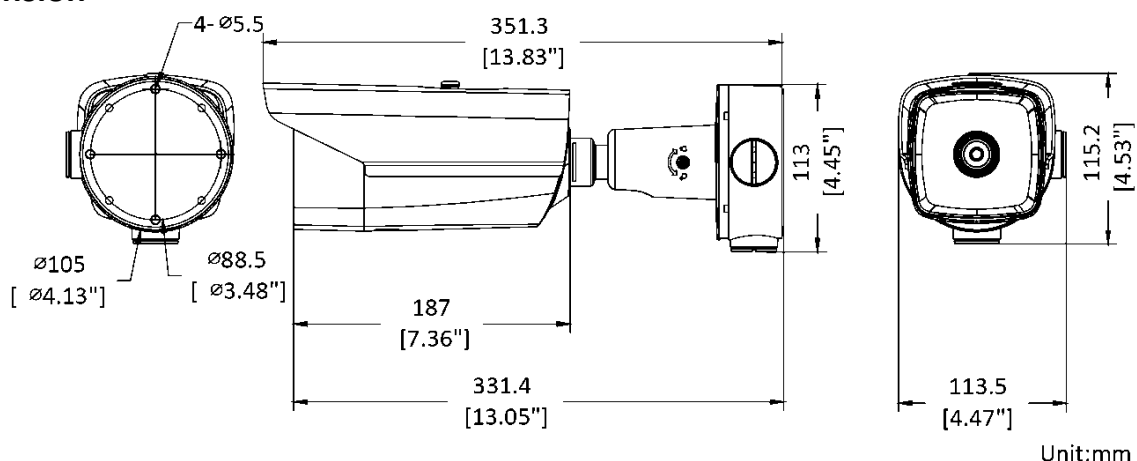| Detection Range (Vehicles: 1.4 × 4.0 m) | Detection Range (Humans: 1.8 × 0.5 m) | Recognition Range (Vehicles: 1.4 × 4.0 m) | Recognition Range (Humans: 1.8 × 0.5 m) | Identification Range (Vehicles: 1.4 × 4.0 m) | Identification Range (Humans: 1.8 × 0.5 m) |
|---|---|---|---|---|---|
| 1661 m | 542 m | 415 m | 135 m | 208 m | 68 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) | Temperature Measurement (Object: 1 × 1 m) | Temperature Measurement (Object: 0.2 × 0.2 m) | Fire Detection (Object: 0.2 × 0.2 m) | Smoking Detection |
|---|---|---|---|---|---|
| 390 m | 130 m | 217 m | 43.4 m | 156 m | 19.5 m |

## ▪ Available Model

DS-2TD2138-13/QY

## ▪ Dimension



```
4-⌀5.5          351.3
               [13.83"]

⌀105      ⌀88.5        187              113        115.2
[⌀4.13"]  [⌀3.48"]    [7.36"]          [4.45"]    [4.53"]

                     331.4             113.5
                     [13.05"]          [4.47"]
                                       Unit:mm
```

## ▪ Accessory

## ▪ Included



DS-1260ZJ-AC#SA

Junction box

## ▪ Optional



DS-1276ZJ-SUS

Corner Mount

DS-1275ZJ-S-SUS

Vertical Pole Mount

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