

DS-2TD2637-10/QY Anti-corrosion Bi-spectrum Network Bullet Camera



Hikvision DS-2TD2637-10/QY Anti-corrosion Bi-spectrum Network Bullet Camera is applied to perimeter protection and fire-prevention purposes in critical infrastructures such as airport, railway, prison, power station, and 4S stores. 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, 17 μm , VOx UFPA, NETD < 35 mK (25°C, F1.0)
- Video content analysis: vehicle/human classification
- Temperature exception alarm for fire prevention, -20°C to 150°C (-4°F to 302°F), $\pm 8^\circ\text{C}$ ($\pm 14.4^\circ\text{F}$)
- Smoking detection Algorithm
- Image processing technology: linear, histogram, self-adaptive thermal AGC mode, DDE, 3D DNR
- High quality detector with 10 years guarantee

Specification

Thermal Module

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|------------------------|--|
| Image Sensor | Vanadium Oxide Uncooled Focal Plane Arrays |
| Resolution | 384 × 288 |
| Pixel Pitch | 17 μm |
| Spectral Range | 8 μm to 14 μm |
| Focal Length | 9.7 mm |
| IFOV | 1.75 mrad |
| Aperture | F1.0 |
| Field of View | 37.5° × 28.5° (H × V) |
| Min. Focusing Distance | 1 m |
| Digital Zoom | × 2, × 4 |

Optical Module

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|-------------------|---|
| Image Sensor | 1/2.7" Progressive Scan CMOS |
| Resolution | 2688 × 1520 |
| Min. Illumination | 0.0089Lux @ (F1.6, AGC ON) , 0 Lux with IR |
| Field of View | 84° × 44.8° (H × V) |
| Focal Length | 4 mm |
| Shutter Speed | 1 s to 1/100,000 s |
| White Balance | MWB/AWB1/Locked WB/Fluorescent Lamp/Incandescent Lamp/Warm Light Lamp/Natural Light |
| Day & Night Mode | IR Cut Filter with Auto Switch |
| WDR | 120 dB |
| Aperture | F1.6 |

Image Effect

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| Bi-spectrum Image Fusion | Display the details of optical channel on thermal channel |
| 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. |

Illuminator

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|------------------------|------------------------|
| IR Distance | Up to 30 m |
| IR Intensity and Angle | Automatically adjusted |

Smart Function

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| 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

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| Main Stream | Optical channel 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) Thermal channel 25 fps (1280 × 720, 704 × 576, 352 × 288, 384 × 288) |
|-------------|--|

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|------------------------------|---|
| Sub-stream | Optical channel 50 Hz: 25 fps (704 × 576, 352 × 288) 60 Hz: 30 fps (704 × 480, 352 × 240) Thermal channel 25 fps (704 × 576, 352 × 288, 384 × 288) |
| Video Compression | Main Stream: H.265/H.264 Sub-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, TP, 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, ONVIF (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 access control, IP address filtering |
| Client | iVMS-4200, Hik-Connect |
| Interface | |
| Alarm Input | 2, alarm input (0 VDC 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 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 1, RS-485 interface (half duplex) |
| Analog Output | 1.0 V [p-p]/75 Ω, PAL/NTSC/BNC |
| General | |
| Menu 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 | 24 VAC ± 25%, 12 VDC ± 25%, 24 VDC, two-core terminal block PoE (802.3af, class 3) |
| Power Consumption | 24 VAC ± 25%: 0.8 A to 0.5 A, Max. 9.5 W 12 VDC ± 25%: 0.63 A to 1.06 A, Max. 9 W 24 VDC: 0.4 A, Max. 9.5 W PoE (802.3af, class 3): 36 V to 57 V, 0.28 A to 0.17 A, Max. 10 W |
| Working Temperature/Humidity | Temperature: -40°C to 65°C (-40°F to 149°F) Humidity: 95% or less |
| Protection Level | IP67 Standard TVS 4000V lightning protection, surge protection, voltage transient protection, IK10-rated housing |

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| Dimension | 376.1 mm × 119.1 mm × 118.1 mm (14.81" × 4.68" × 4.65") |
| Weight | 1.82 kg (4.01 lb) |

DRI Range Table

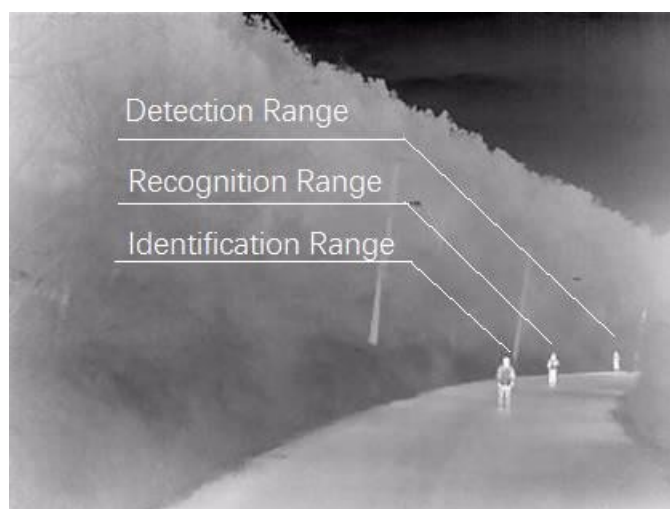
* The table is only for reference and the performance may vary according to different environment.

* The optimal 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) |
|---|---|---|---|--|--|
| 902 m | 294 m | 225 m | 74 m | 113 m | 37 m |

Smart Function Table

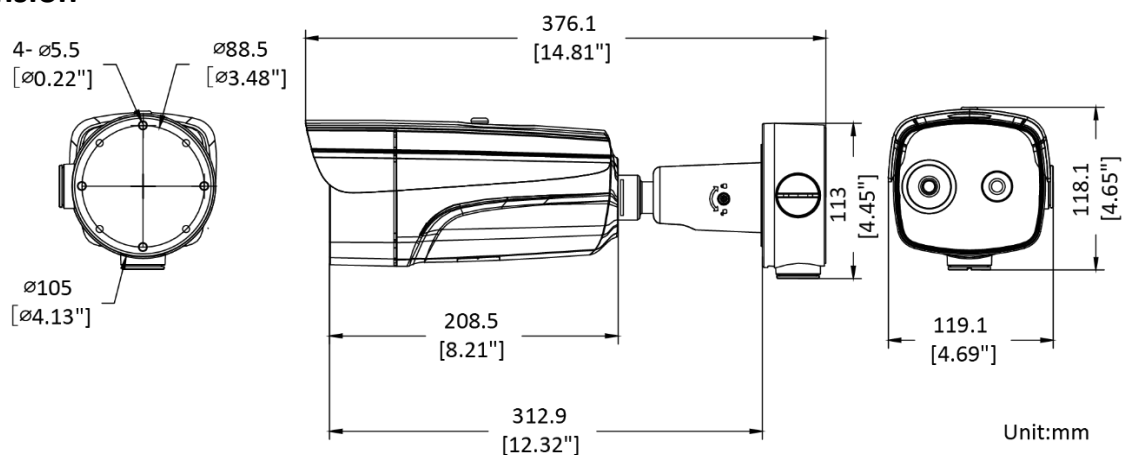
* The table is only for reference and the performance may vary according to different environment.

| VCA Range (Vehicles: 1.4 × 4.0 m) | VCA Range (Humans: 1.8 × 0.5 m) | Temperature Measurement (Object: 0.2 × 0.2 m) | Temperature Measurement (Object: 1 × 1 m) | Fire Detection (Object: 0.2 × 0.2 m) | Smoking Detection |
|---|---------------------------------------|---|---|---|----------------------|
| 210 m | 70 m | 23 m | 114 m | 97 m | 9.7 m |

• Available Model

DS-2TD2637-10/QY

▪ Dimension



▪ 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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