DS-2TD2637-10/P
Thermal & Optical Bi-spectrum Network Bullet Camera

DeepinView series





Hikvision DS-2TD2637-10/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 defense and fire-prevention purposes in critical infrastructures such as community, villa, construction site, factory, 4S stores, and so on. The pre-alarm system helps you discover unexpected events immediately and protects your property.

Smart Function (Thermal Imaging)

- Behavior analysis function, based on deep learning algorithm: line crossing, intrusion, region entrance & exit
- Temperature exception alarm for fire prevention
- Fire detection algorithm

Thermal Imaging Module Function

- 384 × 288 resolution 17 μm, VOx UFPA, NETD ≤ 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
Max. Resolution	384 × 288
Pixel Interval	17μm
Response Waveband	8 μm to 14 μm
NETD (Noise Equivalent Temperature Difference)	≤ 35 mk (@25 °C,F# = 1.0)
Focal Length	9.7 mm
IFOV	1.75 mrad
Field of View	37.5° × 28.5° (H × V)
Min. Focusing Distance	1 m
Aperture	F 1.0
Digital Zoom	×2, ×4, ×8
Optical Module	
Image Sensor	1/2.7" Progressive Scan CMOS
Max. 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	4 mm
Field of View	84° × 44.8° (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 point detection, up to 10 fire points detectable.
Illuminator	
IR Distance	Up to 40 m
IR Intensity and Angle	Automatically adjusted

Video & Audio	
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, 640 × 480, 352 × 288, 320 × 240)
Sub-stream	Optical channel 50 Hz: 25 fps (704 × 576, 352 × 288, 176 × 144) 60 Hz: 30 fps (704 × 480, 352 × 240, 176 × 120) Thermal channel 25 fps (704 × 576, 352 × 288, 320 × 240)
Video Compression	Main Stream: H.265/H.264 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 (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
Simultaneous Live View	Up to 20 channels
User/Host Level	Up to 32 users, 3 levels: Administrator, Operator, User
Security Measures	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 (0-5 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 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 10M/100M self-adaptive Ethernet interface 1, RS-485 interface
Analog Video Output	1.0 V [p-p]/75 Ω, BNC for thermal channel
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	24 VAC± 25%, 12 VDC± 25%, two-core terminal block PoE (802.3af, class 3)
Power Consumption	18 VAC to 30 VAC: 0.38 A to 0.22 A, max. 9 W 9 VDC to 15 VDC: 0.63 A to 1.06 A, max. 9 W 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) Humidity: 95% or less
Protection Level	IP66 Standard TVS 6000V 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)

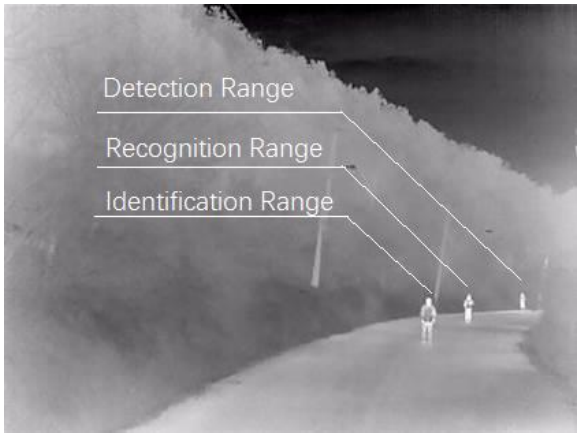
Detection Range Table

** The table is only for reference and the performance may vary from camera to camera.*

Detection Range: In order to distinguish an object from the background, the image must be covered by 1.5 or more pixels.

Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the image must have at least 6 pixels across its critical dimension.

Identification Range: In order to identify the object and describe it in details, the critical dimension must have be least 12 pixels across.



Smart Functions Range

Different targets trigger the VCA events within different range limits.

VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
300 m	100 m	234 m	118 m	588 m	294 m

Wide Range Coverage

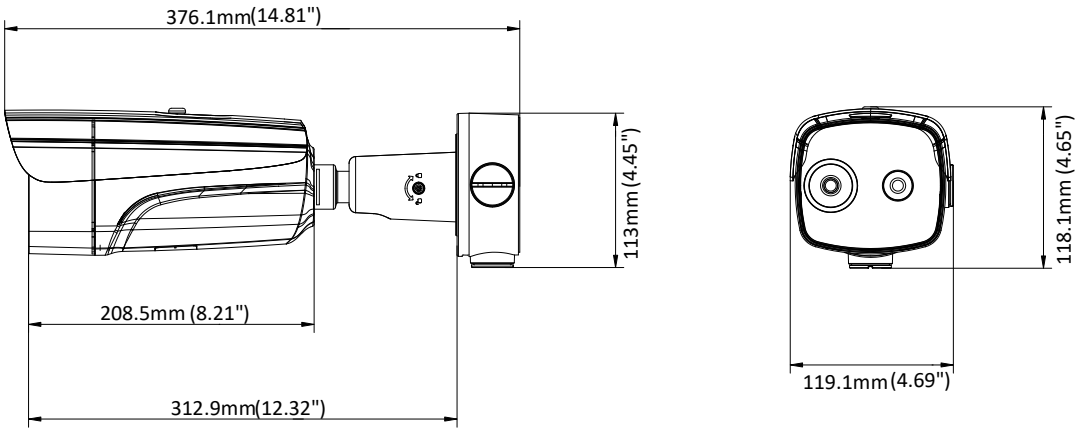
There is range limit for detecting, recognizing, and identifying human/vehicle targets.

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

Available Model

DS-2TD2637-10/P

Dimension



Accessory



DS-1260ZJ
Junction box



DS-1275ZJ-SUS
Vertical pole mount



DS-1276ZJ-SUS
Corner mount

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