

## DS-2TD2637-xx/P

### Thermal and Optical Bi-Spectrum Network Bullet Camera

DeepinView<sup>series</sup>



#### Smart Features

- Line Crossing, Intrusion, Region Entrance/Exit with Human and Vehicle Filtering
- Temperature Exception
- Early Warning Fire Prevention
- Advanced Fire Detection

#### Thermal Imaging Module Function

- 384 × 288 Resolution 17 μm, V0x UFPA, NETD ≤35 mK (25° C, F# = 1.0)
- Image Processing Technology: Liner, Histogram, and Self-Adaptive Thermal AGC Mode, DDE, 3D DNR

Hikvision DS-2TD2637-xx/P Thermal and 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 alarms.

It is applied to perimeter defense and fire-prevention purposes in critical infrastructures such as communities, villas, construction sites, factories, auto dealers, etc.

The pre-alarm system helps you discover unexpected events immediately and protects your property.

#### Available Models

DS-2TD2637-10/P: 9.7 mm thermal focal length  
DS-2TD2637-15/P: 15 mm thermal focal length  
DS-2TD2637-25/P: 25 mm thermal focal length  
DS-2TD2637-35/P: 35 mm thermal focal length



# Specifications

	DS-2TD2637-10P	DS-2TD2637-15P	DS-2TD2637-25P	DS-2TD2637-35P
<b>Thermal Module</b>				
Image Sensor	Vanadium oxide uncooled focal plane arrays			
Maximum 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	9.7 mm	15 mm	25 mm	35 mm
IFOV	1.75 mrad	1.13 mrad	0.68 mrad	0.49 mrad
Field of View (H x V)	37.5° × 28.5°	24.5° × 18.5°	14.9° × 11.2°	10.7° × 8.0°
Minimum Focusing Distance	1 m	2.5 m	13 m	30 m
Aperture	f/1.0			
Digital Zoom	2x, 4x, 8x			
<b>Optical Module</b>				
Image Sensor	1/2.7" progressive scan CMOS			
Maximum Resolution	2688 × 1520			
Minimum Illumination	Color: 0.0089 lux @ (f/1.6, AGC on), B/W: 0.0018 lux @ (f/1.6, AGC on)			Color: 0.014 lux @ (f/2.0, AGC on), BW: 0.0028 lux @ (f/2.0, AGC on)
Shutter Speed	1 s to 1/100,000 s			
Focal Length	4 mm	6 mm	12 mm	14.8 mm
Field of View (H x V)	84° × 44.8°	51.7° × 28°	25.25° × 14.44°	20.59° × 11.73°
Aperture	f/1.6			
WDR	120 dB			
<b>Image Effect</b>				
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			
<b>Smart Function</b>				
VCA (Video Content Analysis)	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting with human and vehicle filtering), up to 8 total VCA rules			
Temperature Measurement	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line) with temperature exception			
Temperature Range	-4° to 302° F (-20° to 150° C)			
Temperature Accuracy	±14.4° F (±8° C)			
Fire Detection	Dynamic fire point detection, up to 10 fire points detectable, early warning fire prevention, advanced fire detection			
<b>Illuminator</b>				
IR Distance	Up to 131 ft (40 m)	Up to 164 ft (50 m)	Up to 330 ft (100 m)	Up to 330 ft (100 m)
IR Intensity and Angle	Automatically adjusted			
<b>Video &amp; Audio</b>				
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			
<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			
Network Storage	MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)			
API	Open-ended API, supports 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			
<b>Interface</b>				
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/e-mail linkage			
Audio Input	1, 3.5 mm mic in/line in interface; line input: 2 to 2.4 V [p-p], output impedance: 1K Ω ±10%			
Audio Output	Linear level, impedance: 600 Ω			
Communication Interface	1 x RJ-45 10M/100M self-adaptive Ethernet interface, 1 x RS-485 interface			

## Specifications (continued)

	DS-2TD2637-10P	DS-2TD2637-15P	DS-2TD2637-25P	DS-2TD2637-35P
<b>General</b>				
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, maximum 9 W			
	9 VDC to 15 VDC: 0.63 A to 1.06 A, maximum 9 W			
Working Temperature/Humidity	PoE (802.3af, class 3): 44 V to 57 V, 0.22 A to 0.17 A, maximum 9.5 W			
	Temperature: -40° to 149° F (-40° to 65° C), Humidity: 95% or less (non-condensing)			
Protection Level	IP66 standard TVS 6000V lightning protection, surge protection, voltage transient protection			
Dimensions	14.81" × 4.68" × 4.65" (376.1 mm × 119.1 mm × 118.1 mm)			
Weight	Approximately 4.01 lb (1.82 kg)			

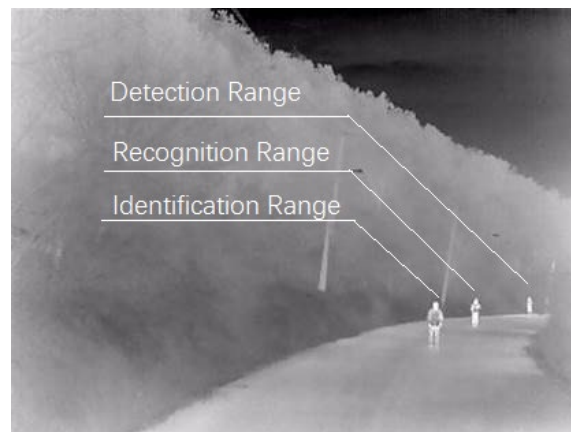
## Detection Range Table

*\*The tables are for reference only, 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 detail, the critical dimension must be at least 12 pixels across.



## Smart Functions Range

Different targets trigger the VCA events within different range limits.

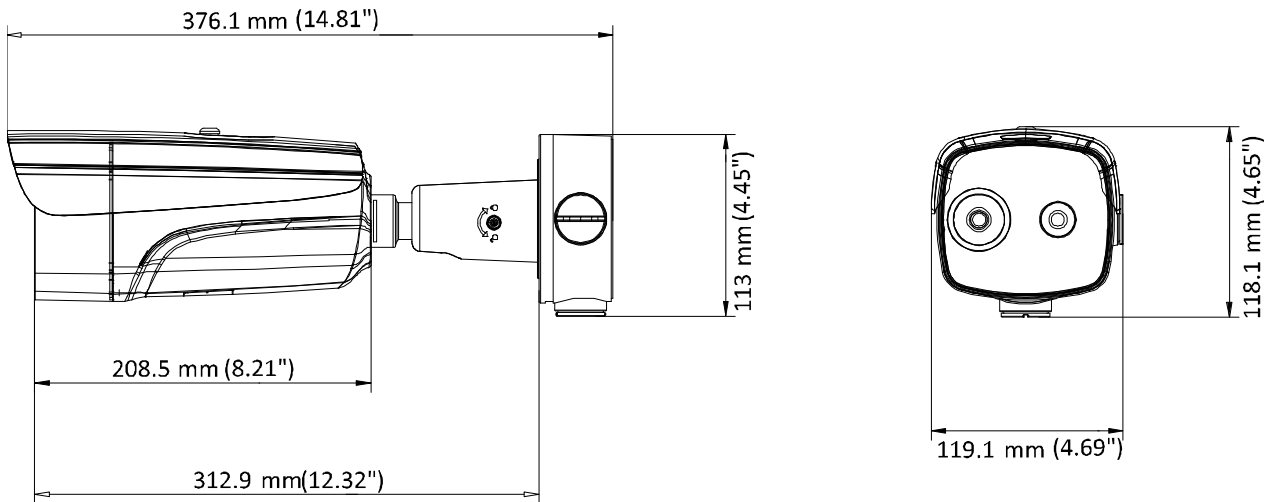
	VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
DS-2TD2637-10/P	656 ft (200 m)	232 ft (71 m)	768 ft (234 m)	387 ft (118 m)	1930 ft (588 m)	965 ft (294 m)
DS-2TD2637-15/P	1013 ft (309 m)	260 ft (110 m)	1150 ft (351 m)	581 ft (177 m)	2890 ft (882 m)	1450 ft (441 m)
DS-2TD2637-25/P	1689 ft (515 m)	603 ft (184 m)	1920 ft (585 m)	968 ft (295 m)	4800 ft (1470 m)	2410 ft (735 m)
DS-2TD2637-35/P	2365 ft (721 m)	843 ft (257 m)	2690 ft (819 m)	1350 ft (413 m)	6750 ft (2058 m)	3380 ft (1029 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)
DS-2TD2637-10/P	2960 ft (902 m)	965 ft (294 m)	738 ft (225 m)	233 ft (71 m)	371 ft (113 m)	121 ft (37 m)
DS-2TD2637-15/P	4440 ft (1353 m)	1450 ft (441 m)	1110 ft (338 m)	360 ft (110 m)	554 ft (169 m)	180 ft (55 m)
DS-2TD2637-25/P	7400 ft (2255 m)	2410 ft (735 m)	1850 ft (564 m)	604 ft (184 m)	925 ft (282 m)	302 ft (92 m)
DS-2TD2637-35/P	10360 ft (3157 m)	3380 ft (1029 m)	2590 ft (789 m)	843 ft (257 m)	1300 ft (395 m)	423 ft (129 m)

## Dimensions



## Accessories

NOT INCLUDED		INCLUDED
<b>PM</b> Vertical pole mount	<b>CM</b> Corner mount	<b>CB130</b> Junction box