

DS-2TD2637-35/P Thermal & Optical Bi-spectrum Network Bullet Camera







Hikvision DS-2TD2637-35/P Thermal & Optical Bi-spectrum Network Bullet Camera, equipped with built-in GPU which supports intelligent perimeter protection algorithm, can realize high-precision VCA detection and real-time alarm. It is applied to perimeter protection and fire prevention purposes in critical infrastructures such as solar park, substation, airport, recycling site, warehouses and so on. The pre-alarm system helps you discover unexpected events immediately and protects your property.

Key Feature

- Powerful perimeter protection functions, based on intelligent algorithm: Line crossing, intrusion, region entrance & exit
- Temperature exception alarm for fire prevention
- Fire detection algorithm
- 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			
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	35 mm		
IFOV	0.49 mrad		
Field of View	10.7° × 8.0° (H × V)		
Min. Focusing Distance	30 m		
Aperture	F 1.0		
Digital Zoom	×2, ×4, ×8		
Optical Module			
Image Sensor	1/2.7" Progressive Scan CMOS		
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	14.8 mm		
Field of View	20.59° × 11.73° (H × V)		
Aperture	F2.0		
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 detection, up to 10 fire points detectable.		
Illuminator			
IR Distance	Up to 100 m		
IR Intensity and Angle	Automatically adjusted		



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 × 770, 704 × 576, 640 × 480, 352 × 288, 320 × 240) 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) Optic	Video & Audio				
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Local service : Chrome 57.0+, Firefox 52.0 + 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 K Ω ± 10% Audio Output Linear level, impedance: 600 Ω 1, RJ45 10 M/100 M self-adaptive Ethernet interface		Live view (plug-in allowed) : Internet Explorer 11			
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 10 M/100 M self-adaptive Ethernet interface	Web Browser	Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 +			
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 1, 3.5 mm Mic in/Line in interface Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 10% Audio Output Linear level, impedance: 600 Ω 1, RJ45 10 M/100 M self-adaptive Ethernet interface		Local service : Chrome 57.0+, Firefox 52.0 +			
Alarm Output 2-ch relay outputs, alarm response actions configurable SD recording/relay output/smart capture/FTP upload/email linkage 1, 3.5 mm Mic in/Line in interface Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 10% Audio Output Linear level, impedance: 600 Ω 1, RJ45 10 M/100 M self-adaptive Ethernet interface	Interface				
Alarm Action SD recording/relay output/smart capture/FTP upload/email linkage 1, 3.5 mm Mic in/Line in interface Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 10% Audio Output Linear level, impedance: 600 Ω 1, RJ45 10 M/100 M self-adaptive Ethernet interface	Alarm Input	2-ch inputs (0-5 VDC)			
Audio Input $ \begin{array}{c} 1, 3.5 \text{ mm Mic in/Line in interface} \\ \text{Line input: 2 to 2.4 V [p-p], output impedance: 1 K} \Omega \pm 10\% \\ \text{Audio Output} \\ \text{Linear level, impedance: 600 } \Omega \\ \\ \text{Communication Interface} \\ \end{array} $	Alarm Output	2-ch relay outputs, alarm response actions configurable			
Audio Input Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 10% Audio Output Linear level, impedance: 600 Ω 1, RJ45 10 M/100 M self-adaptive Ethernet interface	Alarm Action	SD recording/relay output/smart capture/FTP upload/email linkage			
Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 10% Audio Output Linear level, impedance: 600 Ω 1, RJ45 10 M/100 M self-adaptive Ethernet interface	Audio Input	1, 3.5 mm Mic in/Line in interface			
1, RJ45 10 M/100 M self-adaptive Ethernet interface	Audio iriput	Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 10%			
Communication Interface	Audio Output	Linear level, impedance: $600~\Omega$			
1, RS-485 interface	Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface			
	Communication interface	1, RS-485 interface			



General	
	32 languages
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,
Menu language	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
rowei	PoE (802.3af, class 3)
	18 VAC to 30 VAC: 0.38 A to 0.22 A, max. 9 W
Power Consumption	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)



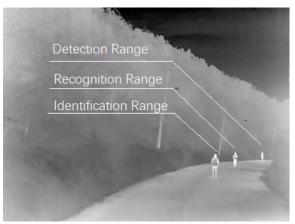
DRI Range Table

- * The table is only for reference and the performance may vary according to different environment.
- * The optimal human 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)
4.0 mj	0.5 111)	1.7 ^ 7.0 III)	1.0 ~ 0.5 111)	1.7 ~ 4.0 III)	1.0 ~ 0.3 111)

Smart Function Table

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

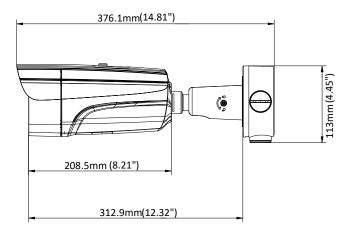
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
721 m	257 m	819 m	413 m	2058 m	1029 m

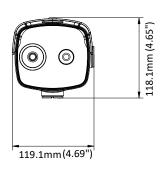
Available Model

DS-2TD2637-35/P



Dimension





Accessory



DS-1275ZJ-S-SUS Vertical Pole Mount



DS-1276ZJ-SUS Corner Mount

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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