

DS-2TD2617-10/PAI Thermal & Optical Bi-spectrum Network Bullet Camera







Hikvision DS-2TD2617-10/PAI 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 commercial facilities such as residential, retail, villa, parking lot, museum, data centers 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
- Fire detection algorithm
- 160 × 120 (the resolution of output image is 320 × 240) resolution 17 μ m, VOx UFPA, NETD \leq 40 mK (25 °C, F# = 1.1)
- 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	160×120 (the resolution of output image is 320×240)			
Pixel Interval	17μm			
Response Waveband	8 μm to 14 μm			
NETD (Noise Equivalent Temperature Difference)	≤ 40 mk (25 °C,F# = 1.1)			
Focal Length	9.7 mm			
IFOV	2.74 mrad			
Field of View	15.96° × 12° (H × V)			
Min. Focusing Distance	1.2 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	8 mm			
Field of View	39.42° × 22.14° (H × V)			
Aperture	F1.7			
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 40 m			
IR Intensity and Angle	Automatically adjusted			



White Light Range	Audible and Visual Alarm	
Audio alarm Video & Audio Optical channel 50 Hz; 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) Main Stream 60 Hz; 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) Thermal channel 25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240) Optical channel 50 Hz; 30 fps (704 × 576, 352 × 288, 176 × 144) Sub-stream 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, 265+H, 264+H, 264 Sub-stream: H, 265+H, 265+H, 264+H, 264 Sub-stream: H, 265+H, 265+H, 265+H, 264+H, 264 Sub-stream: H, 265+H, 265+H, 265+H, 264+H, 264 Sub-stream: H, 265+H, 264+H, 264 Sub-stream: H, 265+H, 265+H, 264+H, 264 Sub-stream: H, 264+H, 264 Sub-stream: H, 264+H,	White Light Range	Up to 40 m
Optical channel SO Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)	Visual Alarm	Yes. White light used as the visual alarm, flashing frequency adjustable
Optical channel 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)	Audio alarm	Yes. 6 audio alarms are supported to cover all kinds of alarm.
So Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)	Video & Audio	
Main Stream		Optical channel
Thermal channel 25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240) Optical channel 50 H2: 25 fps (704 × 576, 352 × 288, 176 × 144) 60 H2: 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.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 MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) API ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profile G, Profile T) Simultaneous Live View Up to 20 channels User/Host Level Up to 32 users, 3 levels: Administrator, Operator, User User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MDS, EAP-TLS), access control, IP address filtering Client IVMS-4200, Hik-Connect Live view (plug-in allowed): Internet Explorer 11 Live view (plug-in allowed): Internet Explorer 11 Live view (plug-in free): Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Live view (plug-in interface. Alarm Input		50 HZ: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
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		Live view (plug-in allowed): Internet Explorer 11
InterfaceAlarm Input1-ch input (0-5 VDC)Alarm Output1-ch relay output, alarm response actions configurableAlarm ActionSD record/relay output/smart capture/FTP upload/email linkage/audio alarm/white light alarmAudio Input1, 3.5 mm Mic in/Line in interface. Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 10%Audio OutputLinear level, impedance: 600 Ω Reset1, Reset Button	Web Browser	Live view (plug-in free): Chrome 57.0 +, Firefox 52.0 +
Alarm Input 1-ch input (0-5 VDC) Alarm Output 1-ch relay output, alarm response actions configurable SD record/relay output/smart capture/FTP upload/email linkage/audio alarm/white light alarm 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 Reset 1, Reset Button		Local service : Chrome 57.0+, Firefox 52.0 +
Alarm Output 1-ch relay output, alarm response actions configurable SD record/relay output/smart capture/FTP upload/email linkage/audio alarm/white light alarm 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 Reset 1, Reset Button	Interface	
Alarm Action SD record/relay output/smart capture/FTP upload/email linkage/audio alarm/white light alarm 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 Reset 1, Reset Button	Alarm Input	1-ch input (0-5 VDC)
Alarm Action light alarm 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 Reset 1, Reset Button	Alarm Output	1-ch relay output, alarm response actions configurable
$\begin{array}{c} \text{light alarm} \\ \\ \text{Audio Input} \\ \\ \text{Audio Output} \\ \\ \text{Audio Output} \\ \\ \text{Reset} \\ \\ \text{I, 3.5 mm Mic in/Line in interface.} \\ \\ \text{Line in input: 2 to 2.4 V [p-p], output impedance: 1 K} \\ \text{Most Mic in/Line in interface.} \\ \\ \text{Line in input: 2 to 2.4 V [p-p], output impedance: 1 K} \\ \text{Most Mic in/Line in interface.} \\ \\ \text{Audio Output} \\ \text{Line ar level, impedance: 600 } \\ \text{Most Mic in/Line in interface.} \\ \text{Line in input: 2 to 2.4 V [p-p], output impedance: 1 K} \\ \text{Most Mic in/Line in interface.} \\ \text{Most Mic in/Line in interface.} \\ \text{Line ar level, impedance: 600 } \\ \text{Most Mic in/Line in interface.} \\ Most Mic $	Alauma Asti - :-	SD record/relay output/smart capture/FTP upload/email linkage/audio alarm/white
Audio Input Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 10% Audio Output Linear level, impedance: 600 Ω Reset 1, Reset Button	Alarm Action	light alarm
Line input: 2 to 2.4 V [p-p], output impedance: 1 KΩ ± 10% Audio Output Linear level, impedance: 600 Ω Reset 1, Reset Button	Audio Innut	1, 3.5 mm Mic in/Line in interface.
Reset 1, Reset Button	Audio input	Line input: 2 to 2.4 V [p-p], output impedance: 1 $K\Omega \pm 10\%$
	Audio Output	Linear level, impedance: $600~\Omega$
Communication Interface 1, RJ45 10 M/100 M self-adaptive Ethernet interface.	Reset	1, Reset Button
	Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet 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	12 VDC± 25%, two-core terminal block
1 GWC1	PoE (802.3af, class 3)
Power Consumption	9 VDC to 15 VDC: 0.65A, max. 7.5 W
Tower consumption	PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, max. 8.0 W
Working Temperature/Humidity	Temperature: -40 °C to 65 °C (-40 °F to 149 °F)
	Humidity: 95% or less
Protection Level	IP66 Standard
PTOLECTION LEVEL	TVS 6000V lightning protection, surge protection, voltage transient protection
Dimensions	354 mm × 144.1 mm × 156.7 mm (13.94" × 5.67" × 6.17")
Weight	Approx. 1.76 kg (3.88 lb)



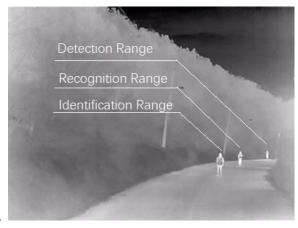
DRI Range Table

- * 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	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
875 m	285 m	219 m	71 m	109 m	

Smart Function Table

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

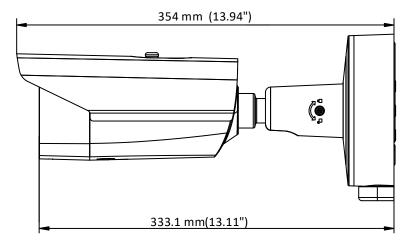
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
133 m	48 m	235 m	118 m	588 m	294 m

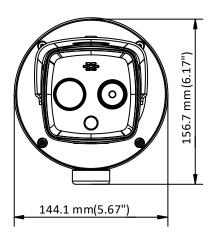
Available Model

DS-2TD2617-10/PAI



Dimension





Accessory







DS-1475ZJ-SUS Vertical Pole 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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