

DS-2TD2617-3/PA Thermal & Optical Bi-spectrum Network Bullet Camera

DeepinView













Hikvision DS-2TD2617-3/PA 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 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

- Behavior analysis function, based on deep learning 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 µm, VOx UFPA, NETD ≤ 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	3.1 mm			
IFOV	5.48 mrad			
Field of View	50° × 37.2° (H × V)			
Min. Focusing Distance	0.2 m			
Aperture	F 1.1			
Digital Zoom	×2, ×4, ×8			
Optical Module				
Image Sensor	1/2.7" Progressive Scan CMOS			
tesolution 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 detection, up to 10 fire points detectable.			
Illuminator				
IR Distance	Up to 40 m			
IR Intensity and Angle	Intensity and Angle Automatically adjusted			



White Light Range Up to 40 m Visual Alarm Yes. White light used as the visual alarm, flashing frequency adjustable Video & Audio Wideo & Audio Main Stream Optical channel 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) Main Stream 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) Memory (2000) Main Stream Sub-stream Optical channel 25 fps (1280 × 720, 704 × 576, 5852 × 288, 320 × 240) Sub-stream 60 Hz: 30 fps (704 × 576, 352 × 288, 320 × 240) Video Compression Main Stream: H2.65/H2.64 Video Compression Main Stream: H2.65/H2.64 Audio Compression G.711v/G.711a/G.722.1/MP2L2/G.726/PCM Network Video Compression Network Storage IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SMMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPP0E Network Storage MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), autonetwork replenishment (ANR) Simulaneous Live View Up to 20 channels Security 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	Audible and Visual Alarm			
Audio alarm Yes. 6 audio alarms are supported to cover all kinds of alarm. Video & Audio 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) Sub-stream 60 Hz: 30 fps (704 × 576, 352 × 288, 176 × 144) 60 Hz: 30 fps (704 × 576, 352 × 288, 320 × 240) Video Compression Main Stream: Hz 265/Hz 264 Sub-Stream: Hz 265/Hz 264 Audio Compression G. 7111/G.711a/G.722.1/MP2L2/G.726/PCM Network Protocols Protocols IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SMMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE Network Storage MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) API SAPI, HISVISION SDK, third-party management platform, ONVIF (Profile S, Profile G, Profile T) Simultaneous Live View Up to 20 channels User Authentication (I0 and PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering Client IVMS-4200, HIK-Connect Web Browser Live view (plug-in allowed): internet Explorer 11 <td>White Light Range</td> <td colspan="3">ght Range Up to 40 m</td>	White Light Range	ght Range Up to 40 m		
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Main Stream		Optical channel		
Main Stream 60 HZ: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)				
25fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240)	Main Stream			
Sub-stream Optical channel 50 Hz: 25fps (704 × 576, 352 × 288, 176 × 144) 60 Hz: 30fps (704 × 80, 352 × 240, 176 × 120) Thermal channel 25fps (704 × 576, 352 × 288, 320 × 240) Video Compression Main Stream: H.265/H.264 Sub-Stream: H.265/H.264/MJPEG Audio Compression Optical Channel 80 Hz: 26fp/H.264/MJPEG Audio Compression Retwork Protocols		Thermal channel		
Sub-stream 50 HZ: 25fps (704 × 576, 352 × 288, 176 × 144) 60 HZ: 30fps (704 × 480, 352 × 240, 176 × 120) Thermal channel 25fps (704 × 576, 352 × 288, 320 × 240) Video Compression Main Stream: H.265/H.264 Sub-Stream: H.265/H.264/MJPEG Audio Compression 6.711u/G.711a/G.722.1/MP2L2/G.726/PCM Network Protocols RIPV4/IPV6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPDE MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) API SISMUltaneous Live View Up to 20 channels User/Host Level Up to 32 users, 3 levels: Administrator, Operator, User User authentication (I0 and PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering Client Web Browser 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 + Lo		25fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240)		
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Video Compression 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 (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 Security User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering Client IVMS-4200, Hik-Connect Web Browser Live view (plug-in allowed): Internet Explorer 11 Web Browser Live view (plug-in allowed): Internet Explorer 11 Live view (plug-in free): 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 SD record/relay output/smart capture/FTP upload/email linkage/audio alarm/white light alarm Injudy Input <t< td=""><td></td><td>25fps (704 × 576, 352 × 288, 320 × 240)</td></t<>		25fps (704 × 576, 352 × 288, 320 × 240)		
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 MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) API SAPI, 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-MD5, EAP-TLS), access control, IP address filtering Client iVMS-4200, Hik-Connect 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 + 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 SD record/relay output/smart capture/FTP upload/email linkage/audio alarm/white light alarm Audio Input Linear level, impedance: 1 KΩ ± 10% Audio Output Linear level, impedance: 600 Ω Communication Interface 1, RJ45 10 M/100 M self-adaptive Ethernet interface		Main Stream: H.265/H.264		
Network Protocols IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTCP, RTCP, UDP, IGMP, ICMP, DHCP, PPPoE Network Storage 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 Security User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering Client iVMS-4200, Hik-Connect Live view (plug-in allowed): Internet Explorer 11 Live view (plug-in free): Chrome 57.0+, Firefox 52.0 + Local service: Chrome 57.	Video Compression	Sub-Stream: H.265/H.264/MJPEG		
Protocols IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPOE	Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM		
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API Profile T) Simultaneous Live View Up to 20 channels User/Host Level Up to 32 users, 3 levels: Administrator, Operator, User Security User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering Client iVMS-4200, Hik-Connect 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 + Interface Alarm Input 2-ch inputs (0-5 VDC) Alarm Output 2-ch relay outputs, 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 KΩ ± 10% Audio Output Linear level, impedance: 600 Ω Communication Interface 1, RJ45 10 M/100 M self-adaptive Ethernet interface	Network Storage	-		
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S02.1x(EAP-MD5, EAP-TLS), access control, IP address filtering iVMS-4200, Hik-Connect 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 + Local serv	Coourity	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE		
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 + Interface Alarm Input 2-ch inputs (0-5 VDC) Alarm Output 2-ch relay outputs, 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 KΩ ± 10% Audio Output Linear level, impedance: 600 Ω Communication Interface 1, RJ45 10 M/100 M self-adaptive Ethernet interface	Security	802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering		
Web BrowserLive view (plug-in free): Chrome 57.0 +, Firefox 52.0 + Local service: Chrome 57.0 +, Firefox 52.0 +InterfaceAlarm Input2-ch inputs (0-5 VDC)Alarm Output2-ch relay outputs, 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: $1 \text{ K}\Omega \pm 10\%$ Audio OutputLinear level, impedance: 600Ω Communication Interface1, RJ45 10 M/100 M self-adaptive Ethernet interface	Client	iVMS-4200, Hik-Connect		
Interface Alarm Input 2-ch inputs (0-5 VDC) Alarm Output 2-ch relay outputs, 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 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 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 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 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 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 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 1, RJ45 10 M/100 M self-adaptive Ethernet interface	Interface			
Alarm Action 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 1, RJ45 10 M/100 M self-adaptive Ethernet interface	Alarm Input	2-ch inputs (0-5 VDC)		
Alarm Action 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 1, RJ45 10 M/100 M self-adaptive Ethernet interface				
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 1, RJ45 10 M/100 M self-adaptive Ethernet interface				
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			
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				
Audio Output Linear level, impedance: 600 Ω 1, RJ45 10 M/100 M self-adaptive Ethernet interface	Audio Input			
1, RJ45 10 M/100 M self-adaptive Ethernet interface	Audio Output			
Communication Interface				
	Communication Interface	1, RS-485 interface		



General	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 ± 20%, two-core terminal block			
rowei	PoE (802.3af, class 3)			
Power Consumption	12 VDC ± 20%: 0.65 A, max. 7.5 W			
Power Consumption	PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, max. 8 W			
Working Tomporature/Humidity	Temperature: -40 °C to 65 °C (-40 °F to 149 °F)			
Working Temperature/Humidity	Humidity: 95% or less			
Protection Level	IP66 Standard			
Protection Level	TVS 6000V lightning protection, surge protection, voltage transient protection			
Dimensions	358.3 mm × 113.5 mm × 115.2 mm (14.10" × 4.47" × 4.53")			
Weight	Approx. 1.76 kg (3.88 lb)			



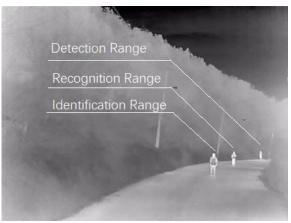
DRI Range Table

- * 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)
280 m	91 m	70 m	23 m	35 m	11 m

Smart Function Table

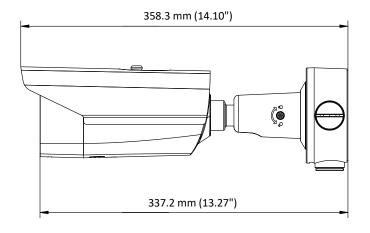
* The table is only for reference and the performance may vary according to different environment.

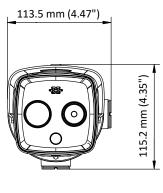
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
45 m	15 m	66 m	33 m	180 m	90 m

Available Model

DS-2TD2617-3/PA

Dimension

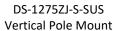






Accessory







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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