

DS-2TD1217-3/PA Thermal & Optical Bi-Spectrum Network Turret Camera

DeepinView













Hikvision DS-2TD1217-3/PA Thermal & Optical Bi-Spectrum Network Turret 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 function
- 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	17 μm				
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	F1.1				
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	4 mm				
Field of View	84° × 44.8°(H × V)				
Aperture	F2.3				
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 totally.				
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 15 m				
IR Intensity and Angle	Automatically adjusted				



udible and Visual Alarm				
White Light Range	Up to 30 m			
Visual Alarm	Yes. White light used as the visual alarm, flashing frequency adjustable			
Audio alarm	Yes. 6 audio alarms are supported to cover all kinds of alarm.			
Video & Audio				
Main Stream	Optical channel			
	50 Hz: 25 fps (2688 × 1520), 25 fps (1920 × 1080), 25 fps (1280 × 720)			
	60 Hz: 30 fps (2688 × 1520), 30 fps (1920 × 1080), 30 fps (1280 × 720)			
	Thermal channel			
	25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240)			
	Optical channel			
	50 Hz: 25 fps (704 × 576), 25 fps (352 × 288), 25 fps (176 × 144)			
Sub-stream	60 Hz: 30 fps (704 × 480), 30 fps (352 × 240), 30 fps (176 × 120)			
	Thermal channel			
	25 fps (704 × 576, 640 × 480, 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,			
Protocois	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 Storage	network replenishment (ANR)			
API	ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profile G,			
Al I	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			
Security	802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering			
Client	iVMS-4200, Hik-Connect			
	Live view (plug-in allowed): Internet Explorer 11			
Web Browser	Live view (plug-in free): Chrome 57.0 +, Firefox 52.0 +			
	Local service : Chrome 57.0+, Firefox 52.0 +			
Interface				
Alarm Input	1-ch input (0-5 VDC)			
Alarm Output	1-ch relay output, alarm response actions configurable			
Alarm Action	SD recording/relay output/smart capture/FTP upload/email linkage/audio alarm/white			
Alai III ACUOII	light alarm			
Audio Input	1, 3.5 mm Mic in/Line in interface			
λιαίο πραί	Line input: 2 - 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			
Communication interface	1, RS-485 interface			



General	neral		
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	12 VDC ± 20%, two-core terminal block PoE (802.3af, class 3)		
Power Consumption	12 VDC ± 20%: 0.5 A, max. 6 W PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, max. 6.5 W		
Working Temperature/Humidity	-40 °C to 65 °C (-40 °F to 149 °F) 95% or less		
Protection Level	IP66 Standard TVS 6000 V Lightning protection, surge protection, voltage transient protection		
Dimension	138.3 mm × 138.3 mm × 123.1 mm (5.45 " × 5.45" × 4.85 ")		
Weight	940 g (2.07 lb)		



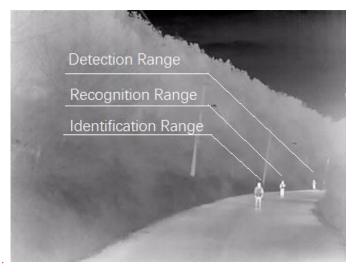
DRI Range Table

- * 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)
7.0 111)	0.5 111)	1.7 ^ 7.0 111)	1.0 ^ 0.3 111)	1.7 ^ 7.0 111)	1.0 ~ 0.5 111)

Smart Function Table

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

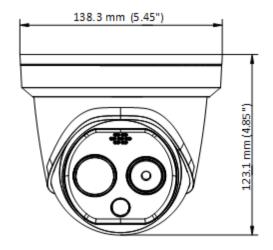
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
43 m	15 m	66 m	33 m	180 m	90 m

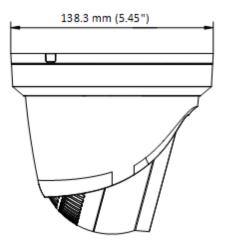
Available Model

DS-2TD1217-3/PA



Dimension





Accessory







DS-1275ZJ-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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