

DS-2TD1217T-3/PA Thermographic Network Turret Camera



Hikvision DS-2TD1217T-3/PA Thermographic Network Bullet Camera can be applied to substations, hydropower stations, waste incineration plants, manufacturing workshops, etc. The accurate temperature measurement device sends temperature exception alarms for loss prevention.

▪ Key Feature

- 160 × 120 resolution, 17 μm , VOx UFPA, NETD < 40 mK (25 °C, F# = 1.1)
- High accuracy temperature exception alarm, - 20 °C to 550 °C (- 4 °F to 1022 °F), Max. (± 2 °C, $\pm 2\%$)
- Image processing technology: linear, histogram, self-adaptive thermal AGC mode, DDE, 3D DNR
- Fire detection algorithm



▪ Specification

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	160 × 120
Pixel Pitch	17 μm
Spectral Range	8 μm to 14 μm
NETD	< 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
Optical Module	
Image Sensor	1/2.7" Progressive Scan CMOS
Resolution	2688 × 1520
Min. Illumination	Color: 0.0176 Lux @ (F2.25, AGC ON), B/W: 0.0035 Lux @ (F2.25, AGC ON)
Shutter Speed	1 s to 1/100,000 s
Focal Length	4 mm
Field of View	84° × 44.8°(H × V)
Aperture (Range)	F 2.3
WDR	120 dB
Image Effect	
Bi-spectrum Image Fusion	Display the details of optical channel on thermal channel
Picture in Picture	Display partial image of thermal channel on the full screen of optical channel
Target Coloration	Yes. Supported in white hot and black hot mode.
Illuminator	
IR Distance	Up to 15 m
IR Intensity and Angle	Automatically adjusted
Audible and Visual Alarm	
White Light Range	Up to 30 m
Visual Alarm	Yes. White light alarm with adjustable flashing frequencies
Audio alarm	Yes, for three types of audible alarm (VCA, Temperature, and Smoking Detection) 3 preset voice alerts (one for each) 6 importable user-defined voice alerts (6 options shared in the three types)
Smart Function	
VCA	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 550 °C (- 4 °F to 1022 °F);
Temperature Accuracy	Max (± 2 °C, ± 2 %)
Fire Detection	Dynamic fire detection, up to 10 fire points detectable.

Video and Audio	
Main Stream	Thermal: 25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240) Optical: 50 Hz:25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60Hz:30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-stream	Thermal: 25 fps (704 × 576, 352 × 288, 320 × 240) Optical: 50 Hz:25 fps (704 × 576, 352 × 288, 176 × 144) 60 Hz:30 fps (704 × 480, 352 × 240, 176 × 120)
Video Compression	Main Stream: H.265/H.264 Sub-Stream: H.265/H.264/MJPEG
Audio Compression	G.722.1/G.711ulaw/G.711alaw/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, NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)
API	ISAPI, HIKVISION SDK, third-party management platform
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 Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 + Local service : Chrome 57.0 +, Firefox 52.0 +
Interface	
Alarm Input	1, alarm input (0-5 VDC)
Alarm Output	1, alarm output (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 - 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. 1, RS-485 interface (half duplex)
General	
Web Client 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 Supply	12 VDC ± 25%, ϕ 5.5 mm coaxial power plug PoE (802.3af, class 3)
Power Consumption	12 VDC ± 25%: 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	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	138.3 mm × 138.3 mm × 123.1 mm (5.45 " × 5.45" × 4.85 ")
Weight	940 g (2.07 lb)

DRI Range Table

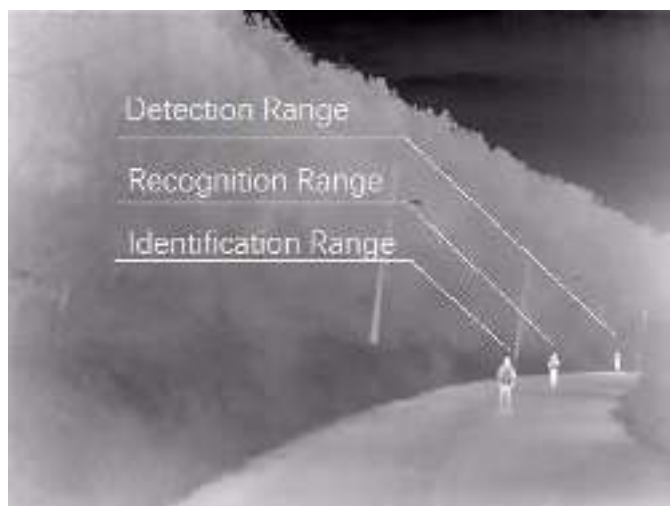
* The table is only for reference and the performance may vary according to different environment.

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

Smart Function Table

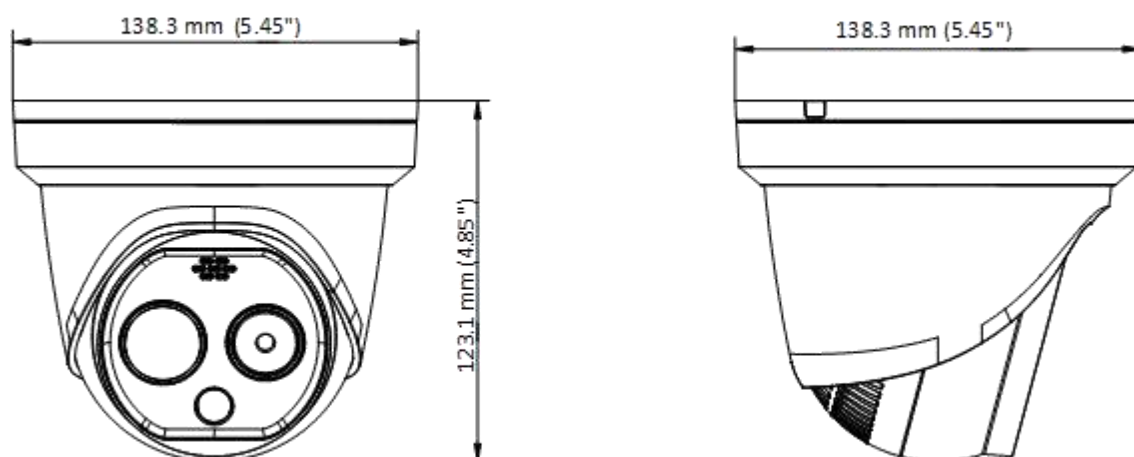
* The table is only for reference and the performance may vary according to different environment.

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)
43 m	15 m	66 m	33 m

▪ Available Model

DS-2TD1217T-3/PA

▪ Dimension



Unit: mm [Inch]

▪ Accessory

▪ Optional



DS-1273ZJ-140
(BLACK)



DS-1273ZJ-140B
Wall Mount



DS-1275ZJ-SUS
Vertical Pole Mount



DS-1273ZJ-140
Wall Mount



DS-1271ZJ-140
Pendant Mount



DS-1276ZJ-SUS
Corner Mount



DS-1280ZJ-DM21
Junction Box

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.

Distributed by



HIKVISION

Headquarters

No.555 Qianmo Road, Binjiang District,
Hangzhou, 310051, China
T +86-571-8607-5008
overseasbusiness@hikvision.com

Hikvision USA
T +1-909-865-0400
sales.usa@hikvision.com

Hikvision Australia
T +61-2-8693-4233
sales.au@hikvision.com

Hikvision India
T +91-22-28469800
sales@pmahikvision.com

Hikvision Canada
T +1-800-380-6890
sales.canada@hikvision.com

Hikvision Thailand
T +662-275-3646
sales.thailand@hikvision.com

Hikvision Europe
T +31-23-3642770
sales.eu@hikvision.com

Hikvision Italy
T +39-0439-6802
info.it@hikvision.com

Hikvision Brazil
T +55 11 3316-0850
latam.support@hikvision.com

Hikvision Turkey
T +90 12160217070-7074
sales.tr@hikvision.com

Hikvision Malaysia
T +601-7652-2413
sales.my@hikvision.com

Hikvision UK & Ireland
T +41520-902140
sales.uk@hikvision.com

Hikvision South Africa
T +27 11 01 0361172
sales.africa@hikvision.com

Hikvision France
T +33 01-85-330-450
info.fr@hikvision.com

Hikvision Kazakhstan
T +7-727-8730667
nikitapantikov@hikvision.kz

Hikvision Vietnam
T +84-974270898
sa.cau.vi@hikvision.com

Hikvision UAE
T +971-4-4432090
sales.me@hikvision.com

Hikvision Singapore
T +65-6884-4718
sg@hikvision.com

Hikvision Spain
T +34-91-737-16-55
info.es@hikvision.com

Hikvision Tashkent
T +99-87-1238-9432
info@hikvision.uz

Hikvision Hong Kong
T +852-2151-1761
info.hk@hikvision.com

Hikvision Russia
T +7-495-660-67-00
sales.ru@hikvision.com

Hikvision Korea
T +82-10151-731-8617
sales.korea@hikvision.com

Hikvision Poland
T +48-22-463-01-50
info.pl@hikvision.com

Hikvision Indonesia
T +62-21-2932759
Sales.indonesia@hikvision.com

Hikvision Colombia
sales.colombia@hikvision.com