

## DS-2TD1217-3/QA Thermographic Network Turret Camera



Hikvision DS-2TD1217-3/QA Thermographic Network Turret 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 150°C (- 4 °F to 302 °F) ± 8°C (± 14.4°F)
- Image processing technology: linear, histogram, self-adaptive thermal AGC mode, DDE, 3D DNR

## ▪ Specification

<b>Thermal Module</b>	
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	50.0° × 37.2° (H × V)
Min. Focusing Distance	0.2 m
Aperture	F1.1
Digital Zoom	× 2, × 4
<b>Optical Module</b>	
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	84.0° × 44.8° (H × V)
Aperture (Range)	F2.3
WDR	120 dB
<b>Image Effect</b>	
Target Coloration	Yes. Supported in white hot and black hot mode.
<b>Illuminator</b>	
IR Distance	Up to 15 m
IR Intensity and Angle	Automatically adjusted
<b>Audible and Visual Alarm</b>	
White Light Range	Up to 30 m
Visual Alarm	Yes. White light alarm with adjustable flashing frequencies
Audio alarm	Yes, for two types of audible alarm (VCA, Temperature) 2 preset voice alerts (one for each) 6 importable user-defined voice alerts (4 options shared in the two types)
<b>Smart Function</b>	
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 150°C (- 4°F to 302°F)
Temperature Accuracy	± 8°C (± 14.4°F)

<b>Video and Audio</b>	
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) 60 Hz: 30 fps (704 × 480, 352 × 240)
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
<b>Network</b>	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, SSL
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 +
<b>Interface</b>	
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)
<b>General</b>	
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

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Working Temperature/Humidity	Temperature: - 40°C to 65°C (- 40°F to 149°F) Humidity: 95% or less
Protection Level	IP66 Standard TVS 6000 V 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

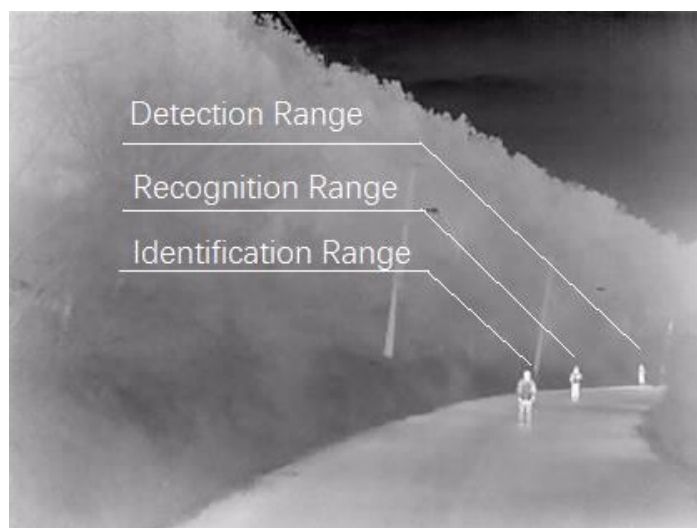
\* The table is only for reference and the performance may vary according to different environment.

\* The optimal 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	91m	70 m	23 m	35 m	11 m

## Smart Function Table

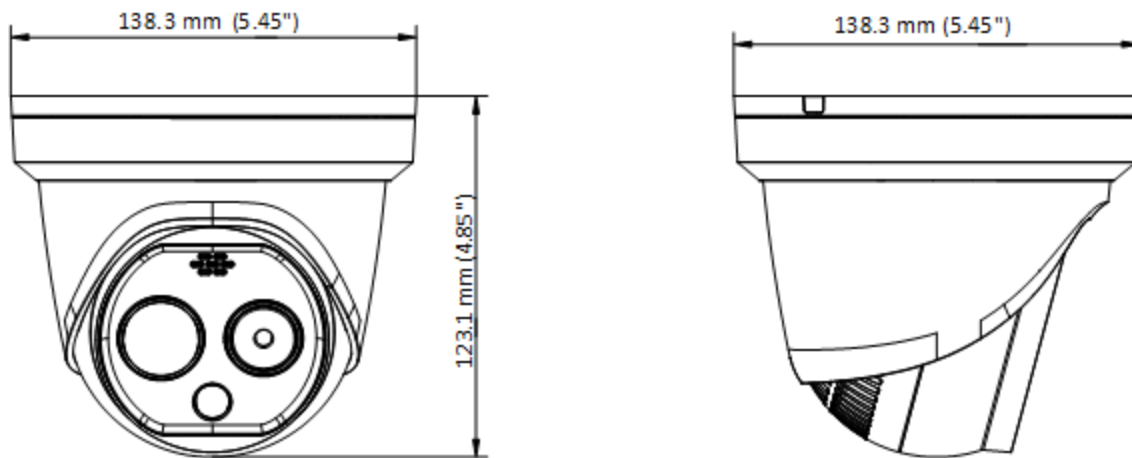
\* The table is only for reference and the performance may vary according to different environment.

VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 0.2 × 0.2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 0.2 × 0.2 m)
43 m	15 m	6.82 m	34.1 m	31 m

### ▪ Available Model

DS-2TD1217-3/QA

▪ **Dimension**



Unit: mm [Inch]

▪ **Accessory**

▪ **Optional**



DS-1273ZJ-140  
Wall Mount



DS-1273ZJ-140  
(BLACK)



DS-1280ZJ-DM21  
Junction Box



DS-1273ZJ-140B  
Wall Mount



DS-1271ZJ-140  
Pendant Mount



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.

**Headquarters**

No.555 Qianmo Road, Binjiang District,  
Hangzhou 310051, China  
T +86-571-8807-5998  
www.hikvision.com



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