

DS-2TD1228T-2/QA

Bi-spectrum Thermography Network Turret Camera



















Hikvision DS-2TD1228T-2/QA Bi-spectrum Thermography Network Turret Camera can be applied to warehouses, construction sites, waste incineration plants, manufacturing workshops, etc. The accurate temperature measurement device sends temperature exception alarms for loss prevention.

Key Feature

- 256 \times 192 resolution, 12 μ m, VOx UFPA, NETD < 40 mK (25°C, F1.0)
- Video content analysis: vehicle/human classification
- Temperature exception alarm for fire prevention, -20°C to 550°C (-4°F to 1,022°F), Max. (± 2°C, ± 2%)
- Smoking detection Algorithm
- Image processing technology: linear, histogram, self-adaptive thermal AGC mode, DDE, 3D DNR
- High quality detector with 10 years guarantee





Specification

Thermal Module					
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays				
Resolution	256 × 192				
Pixel Pitch					
	12 μm				
Spectral Range	8 μm to 14 μm				
NETD	< 40 mK (@ 25°C, F# = 1.0)				
Focal Length	2.1 mm				
IFOV	5.71 mrad				
Aperture	F1.0				
Field of View	90.0° × 65.4° (H × V)				
Min. Focusing Distance	0.1 m				
Digital Zoom	× 2, × 4				
Optical Module					
Image Sensor	1/2.7" Progressive Scan CMOS				
Resolution	2688 × 1520				
Min. Illumination	0.0176Lux @ (F2.25, AGC ON), 0 Lux with IR				
Field of View	117.8° × 70.4° (H × V)				
Focal Length	2.2 mm				
Shutter Speed	1 s to 1/100,000 s				
White Balance	MWB/AWB1/Locked WB/Fluorescent Lamp/Incandescent Lamp/Warm Light				
Wille Balance	Lamp/Natural Light				
Day & Night Mode	IR Cut Filter with Auto Switch				
WDR	120 dB				
Aperture	F2.25				
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				
	Yes, for three types of audible alarm (VCA and Temperature Exception)				
Audio alarm	3 preset voice alerts (one for each)				
	6 importable user-defined voice alerts (6 options shared in the two types)				
Smart Function					
	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8				
VCA	VCA rules in total.				
	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1				
Temperature Measurement	line)				
Temperature Range	-20°C to 550°C (-4°F to 1022°F)				
Temperature Accuracy	Max. (± 2°C, ± 2%)				
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Video and Audio	
	Thermal:
	25 fps (1280 × 720, 704 × 576, 640 × 512, 320 × 240)
Main Stream	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, 640 × 512, 320 × 240)
	Optical:
	50 Hz: 25 fps (704 × 576, 352 × 288)
	60 Hz: 30 fps (704 × 480, 352 × 240)
	Main Stream: H.265/H.264
Video Compression	Sub-Stream: H.265/H.264/MJPEG
Audio Compression	G.722.1/G.711ulaw/G.711alaw/MP2L2/G.726/PCM
Network	
	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,
Protocols	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPOE, TP, Bonjour, SFTP, SRTP, SSL
	MicroSD/SDHC/SDXC card (up to 256 GB) local storage, NAS (NFS, SMB/CIFS), Auto
Network Storage	Network Replenishment (ANR)
	ISAPI, HIKVISION SDK, and third-party management platform, Open Network Video
API	Interface (Profile S, Profile G)
Simultaneous Live View	Up to 20 channels
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User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Security	User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE
all .	802.1x access control, IP address filtering
Client	iVMS-4200, Hik-Connect
Interface	
Alarm Input	1, alarm input (0 to 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 to 2.4 V [p-p], output impedance: 1 KΩ ± 10%
Audio Output	Linear level, impedance: 600Ω
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.
Communication interrace	1, RS-485 interface (half duplex)
General	
	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,
Menu Language	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,
Wiena Language	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
ι σίνει συμμίγ	PoE (802.3af, class 3)
Power Consumption	12 VDC ± 25%: 0.5 A, Max. 6 W
Power Consumption	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)
vorking reinperacure/numberly	Humidity: 95% or less



Protection Level	IP66 Standard TVS 4000V 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)



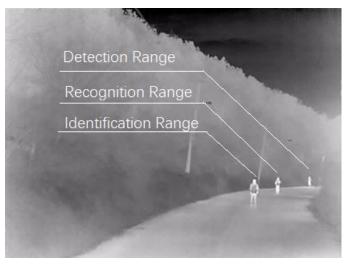
DRI Range Table

- * 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	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)
268 m	88 m	67 m	22 m	34 m	11 m

Smart Function Table

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

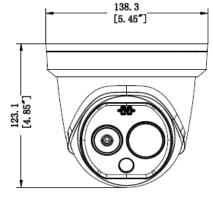
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 0.2 ×0.2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 0.2 × 0.2 m)	Smoke detection (Object: 0.5 × 0.5 m)
50.4 m	16.8 m	7 m	35 m	25.2 m	11 m

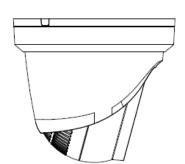
Available Model

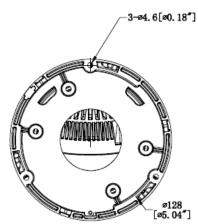
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Dimension







Unit:mm[Inch]

- Accessory
- Optional





DS-1280ZJ-DM21 Junction Box



DS-1273ZJ-140 Wall Mount



DS-1273ZJ-140B Wall Mount



DS-1275ZJ-SUS Vertical Pole Mount



DS-1273ZJ-140 (BLACK)



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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HIKVISION°

Headquarters

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

Hikvision USA T+1-909-895-0400 sales.usa@hikvision.com

Hikvision Australia T+61-2-8599-4233 salesau@hikvision.com

Hikvision India T+91-22-28469900 sales@pramahikvision.com

Hikvision Canada T+1-866-200-6690 sales.canada@hikvision.com

Hikvision Thailand T+662-275-9949 sales.thailand@hikvision.com Hikvision Europe T +31-23-5542770 sales.eu@hikvision.com

Hikvision Italy T +39-0438-6902 info.it@hikvision.com

Hikvision Brazil T +55 11 3318-0050 Latam.support@hikvision.com

Hikvision Turkey T +90 (216)521 7070- 7074 sales.tr@hikvision.com

Hikvision Malaysia T+601-7652-2413 sales.my@hikvision.com Hikvision UK & Ireland T +01628-902140 sales.uk@hikvision.com

Hikvision South Africa Tel: +27 (10) 0351172 sale.africa@hikvision.com

Hikvision France T +33(0)1-85-330-450 info.fr@hikvision.com

Hikvision Kazakhstan T +7-727-9730667 nikia.panfilov@hikvision.ru

Hikvision Vietnam T +84-974270888 sales.vt@hikvision.com Hikvision UAE T +971-4-4432090 salesme@hikvision.com

Hikvision Singapore T +65-6684-4718 sg@hikvision.com

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

Hikvision Tashkent T +99-87-1238-9438 uzb@hikvision.ru

Hikvision Hong Kong T +852-2151-1761 info.hk@hikvision.com **Hikvision Russia** T +7-495-669-67-99 saleru@hikvision.com

Hikvision Korea T +82-{0}31-731-8817 sales.korea@hikvision.com

Hikvision Poland T +48-22-460-01-50 info.pl@hikvision.com

Hikvision Indonesia T+62-21-2933759 Sales.Indonesia@hikvision.com

Hikvision Colombia sales.colombia@hikvision.com