

DS-2TD1228T-3/QA **Bi-spectrum Thermography Network Turret Camera**



















Hikvision DS-2TD1228T-3/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

- 256×192 resolution, $12 \mu m$, 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	3.6 mm				
IFOV	3.33 mrad				
Aperture	F1.0				
Field of View	50.0° × 37.3° (H × V)				
Min. Focusing Distance	0.5 m				
Digital Zoom	×2, ×4				
Optical Module					
Image Sensor	1/2.7" Progressive Scan CMOS				
Resolution	2688 × 1520				
Min. Illumination	0.0089Lux @ (F1.6, AGC ON), 0 Lux with IR				
Field of View	84.0° × 43.1° (H × V)				
Focal Length	4.3 mm				
Shutter Speed	1 s to 1/100,000 s				
White Balance	MWB/AWB1/Locked WB/Fluorescent Lamp/Incandescent Lamp/Warm Light				
Write Balance	Lamp/Natural Light				
Day & Night Mode	IR Cut Filter with Auto Switch				
WDR	120 dB				
Aperture	F 1.6				
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%)				



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)
	Thermal:
	25 fps (704 × 576, 640 × 512, 320 × 240)
Sub-stream	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
ideo Compression	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,
Protocois	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, TP, Bonjour, SFTP, SRTP, SSL
Network Storage	MicroSD/SDHC/SDXC card (up to 256 GB) local storage, NAS (NFS, SMB/CIFS), Auto
Network Storage	Network Replenishment (ANR)
API	ISAPI, HIKVISION SDK, and third-party management platform, Open Network Video
Ari	Interface, ONVIF (Profile S, Profile G)
Simultaneous Live View	Up to 20 channels
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Security	User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE
Security	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
Addio iliput	Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 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 (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,
	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
. Ower Supply	PoE (802.3af, class 3)
	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) 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)



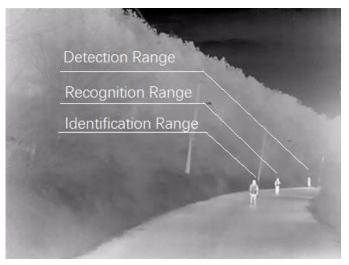
DRI Range Table

- * 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)	

Smart Function Table

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

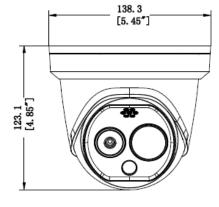
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 0.2 ×0.2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 0.2 × 0.2 m)	Smoke detection (Object: 0.5 × 0.5 m)	Smoking Detection
75.6 m	28.4m	11.7 m	58.3 m	43.2 m	21.5 m	5.4 m

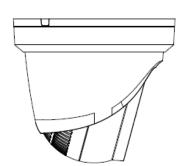
Available Model

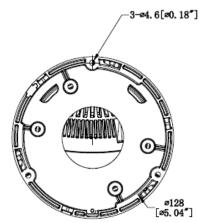
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Dimension



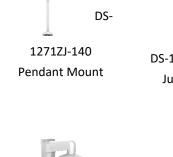




Unit:mm[Inch]

Accessory

Optional



DS-1273ZJ-140

(BLACK)



Corner Mount



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