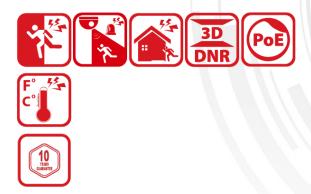


DS-2TD1228T-3/QA(B) Bi-spectrum Thermography Network Turret Camera



Hikvision DS-2TD1228T-3/QA(B) 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.

- 256 × 192 resolution, 12 μm, 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%)
- Support smoke detection algorithm
- Image processing technology: linear, histogram, self-adaptive thermal AGC mode, DDE, 3D DNR
- High quality detector with 10 years guarantee
- Support smoking detection algorithm
- Support sun-reflection filter and forklift alarm filter algorithm



Specification Thermal Module

Thermal Module					
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays				
Resolution	256 x 192				
Pixel Pitch	12 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				
	MWB/AWB1/Locked WB/Fluorescent Lamp/Incandescent Lamp/Warm Light				
White Balance	Lamp/Natural Light				
Day & Night Mode	IR Cut Filter with Auto Switch				
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				
	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					
VCA	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting),				
VUA	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, smoke detection, smoking detection, sun-reflection filter, forklift				
General Function	alarm filter				
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)				
	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,				
Protocols	NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP,				
	PPPoE,TP,Bonjour,SFTP,SRTP,TLS				
	MicroSD/SDHC/SDXC card (up to 256 G) local storage, NAS (NFS, SMB/CIFS),				
Network Storage	Auto Network Replenishment (ANR)				
	ISAPI, HIKVISION SDK, ISUP,, and third-party management platform, Open				
API	Network Video 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				
	User authentication (ID and password), MAC address binding, HTTPS				
Security	encryption, IEEE 802.1x access control, IP address filtering				
Client	iVMS-4200, Hik-Connect				
Interface					
Alarm Output	2, alarm output (alarm response actions configurable)				
Alarm Action	SD recording/Relay output/Smart capture/FTP upload/Email linkage				
	1, 3.5 mm Mic in/Line in interface				
Audio Input	Line input: 2 - 2.4 V [p-p], output impedance: 1 K Ω ± 10%				
Audio Output	Linear level, impedance: 600Ω				
	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.				
Communication Interface	1, RS-485 interface (half duplex)				



General				
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 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): 36 V to 57 V, 0.22 A to 0.14 A, Max 6.5 W			
Working	Temperature: -40°C to 70°C (-40°F to 158°F)			
Temperature/Humidity	Humidity: 95% or less			
Protection Level	IP67 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)			

Range Table

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 × 0.5m)	Smoking Detection
75.6 m	28.4m	11.7 m	58.3 m	43.2m	12.9m	5.4m

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* 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.

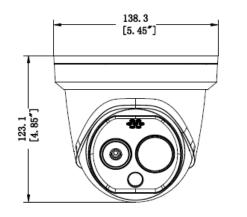
Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels.

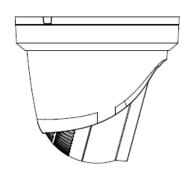
Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.

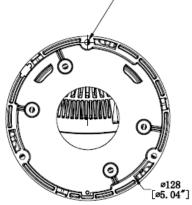
Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
460 m	150 m	112 m	38 m	56 m	19 m



Dimension







Accessory

Optional

DS-1273ZJ-140 Wall mount	DS-1273ZJ-140B Wall mount	DS-1271ZJ-140 Pendant Mount	DS-1275ZJ-SUS Vertical pole mount	DS-1276ZJ-SUS Corner mount
			<u>4 6 6</u>	
DS-1280ZJ-DM21 Junction box	DS-1273ZJ- 140(BLACK) Wall mount			
	12			



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