

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





Hikvision DS-2TD1228T-2/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 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%)
- 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 smoke detection algorithm
- Support sun-reflection filter and forklift alarm filter algorithm



Specification

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	2.1 mm 5.71 mrad					
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 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					
Audio alarm	Yes, for three types of audible alarm (VCA and Temperature Exception) 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), up to 8 VCA rules in total.					
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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 %)					
0	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)					
\rac{1}{2} \cdot \frac{1}{2} \	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					
Notes de Otomore	MicroSD/SDHC/SDXC card (up to 256 G) local storage, NAS (NFS, SMB/CIFS),					
Network Storage	Auto Network Replenishment (ANR)					
ADI	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					
A P I .	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: $600~\Omega$					
	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		
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
50.4. m	16.8m	7 m	35 m	25.2m	6.6m	3.15m

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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.

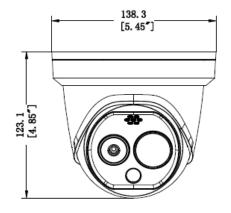
Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels.

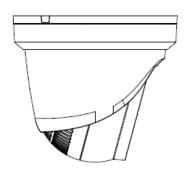
Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.

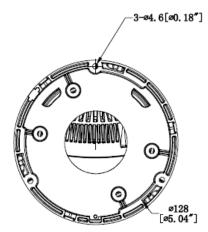
Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
			11.5	1.1 1.0 11.1	1.0 0.0 111)



Dimension







Accessory

Optional

- 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
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DS-1280ZJ-DM21 Junction box	DS-1273ZJ- 140(BLACK) Wall mount			
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