

DS-2TD1228-7/QA

Thermal & Optical Bi-spectrum Network Turret Camera





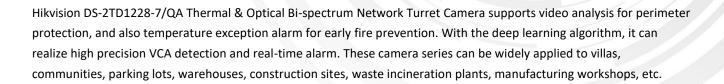












Key Feature

- 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 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
- 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, F1.1)			
Focal Length	6.9mm			
IFOV	1.74 mrad			
Field of View	24.9°(H) × 18.7°(V)			
Min. Focusing Distance	1.3 m			
Aperture	F1.0			
Digital Zoom	× 2, × 4			
Optical Module				
Image Sensor 1/2.7" Progressive Scan CMOS				
Resolution	2688 × 1520			
Min. Illumination	0.0089 Lux @(F1.6, AGC ON), 0 Lux with IR			
Shutter Speed	1 s to 1/100,000 s			
Focal Length	6.4 mm			
Field of View 53.0°(H) × 28.0°(V)				
Aperture (Range) F1.6				
WDR	120 dB			
Image Effect				
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 two types of audible alarm (VCA and Temperature Exception)			
Audio alarm	2 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	VCA rules in total.			
Temperature Measurement	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1			
remperature measurement	line)			
Temperature Range	-20°C to 150°C (-4°F to 302°F)			
Temperature Accuracy	± 8°C (± 14.4°F)			



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
Video 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, Bonjour, SFTP, SRTP
Notwork Storago	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
AFI	Interface (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(EAP-MD5, EAP-TLS), access control, IP address filtering
Client	iVMS-4200, Hik-Connect
	Live view (plug-in allowed) : Internet Explorer 11
Web Browser	Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 +
	Local service : Chrome 57.0+, Firefox 52.0 +
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
<u> </u>	Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 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)
General	
	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,
Web Client Language	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,
3 0	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
Working Temperature/Humidity	Temperature: -40°C to 65°C (-40°F to 149°F)
	Humidity: 95% or less
Protection Level	IP66 Standard
Protection Level	TVS 6000V 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)



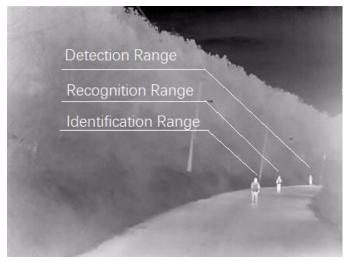
DRI Range Table

- * 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)
881 m	287 m	220 m	72 m	110 m	36 m

Smart Function Table

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

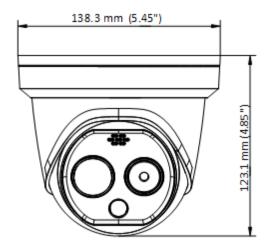
VCA Range (Vehicles: 1.4 ×	VCA Range (Humans: 1.8 ×	Temperature Measurement	Temperature Measurement
4.0 m)	0.5 m)	(Object: 0.2 × 0.2 m)	(Object: 1 × 1 m)
144.9 m	55.2 m	23.3 m	116.7 m

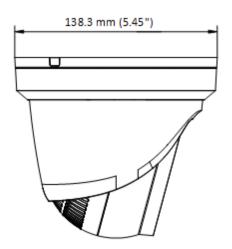
Available Model

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Dimension





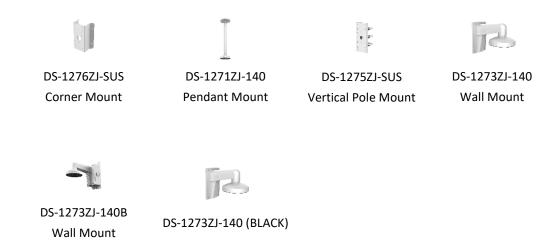
Unit: mm [Inch]

DS-1280ZJ-DM21

Junction Box

Accessory

Optional



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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