

DS-2TD1228-7/QA

Thermal & Optical Bi-spectrum Network Turret Camera

















Hikvision DS-2TD1228-7/QA Thermal & Optical Bi-spectrum Network Turret Camera supports video analysis for perimeter protection, and also temperature exception alarm for early fire prevention. With the deep learning algorithm, it can realize high precision VCA detection and real-time alarm. These camera series can be widely applied to villas, communities, parking lots, warehouses, construction sites, waste incineration plants, manufacturing workshops, etc.

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

Image Sensor Vanadium Oxide Uncooled Focal Plane Arrays Resolution 256 x 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) x18.7°(V) Min. Focusing Distance 1.3m Aperture F1.0 Digital Zoom x, x4 Optical Module Image Sensor 1/2.7" Progressive Scan CMOS Resolution 2688 x 1520 Min. Illumination Color: 0.0176 Lux @ (F2.25, AGC ON), B/W: 0.0035 Lux @ (F2.25, AGC ON) Shutter Speed 1 s to 1/100,000 s Focal Length 6.4 mm Field of View 53.0"(H) x28.0"(V) Aperture (Range) F1.6 WDR 120 dB Illumination Yes. Supported in white hot and black hot mode. Illumination Yes. Supported in white hot and black hot mode. Illumination Yes. Supported in white hot and black hot mode. Illumination Yes. for two types of audible	Thermal Module					
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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) 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 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 150°C (-4°F to 302°F)	Illuminator					
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Temperature Measurement line) Temperature Range -20°C to 150°C (-4°F to 302°F)	VCA	VCA rules in total.				
Temperature Range -20°C to 150°C (-4°F to 302°F)	Temperature Measurement	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1				
	remperature ivicasurement	line)				
Temperature Accuracy ± 8°C (±14.4°F)	Temperature Range	-20°C to 150°C (-4°F to 302°F)				
	Temperature Accuracy	± 8°C (±14.4°F)				



Video and Audio				
	Thermal:			
Main Stream	25 fps (1280 × 720, 704 × 576, 640 × 512, 320 × 240)			
	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			
Natwork Storage	MicroSD/SDHC/SDXC card (up to 256 G) local storage, NAS (NFS, SMB/CIFS), Auto			
Network Storage	Network Replenishment (ANR)			
API	ISAPI, HIKVISION SDK, and third-party management platform, Open Network Video			
ALI	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 (0-5 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 - 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.			
	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,			
	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 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)



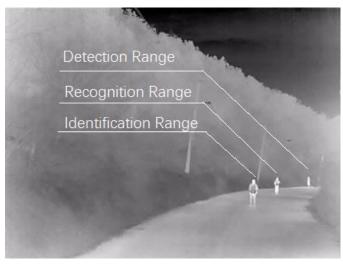
DRI Range Table

- * 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	0.5\	1 4 4 0)	10,40,5)	1 4 × 4 0 m)	10,40 5
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.

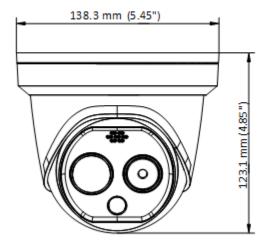
VCA Range (Vehicles: 1.4 ×	VCA Range (Humans: 1.8 ×	Temperature Measurement	Temperature Measurement
4.0 m)	0.5 m)	(Object: 0.2 × 0.2 m)	(Object: 1 × 1 m)
144.9 m	55.2 m	23.3 m	116.7 m

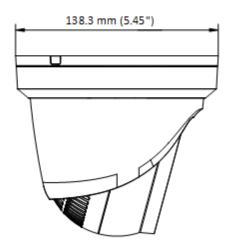
Available Model

DS-2TD1228-7/QA



Dimension

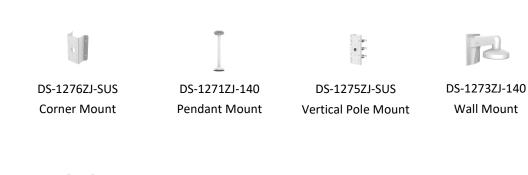


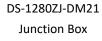


Unit: mm [Inch]

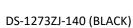
Accessory

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.



Distributed by

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