

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





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) x18.7°(V)			
Min. Focusing Distance	1.3m			
Aperture	F1.0			
Digital Zoom	×2,×4			
Optical Module				
Image Sensor	1/2.7" Progressive Scan CMOS			
Resolution	2688 × 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			
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			
Audio alarm	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)			
Temperature Accuracy	± 8°C (±14.4°F)			



Video and Audio					
Main Stream	Thermal: 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)				
Sub-stream	Thermal: 25 fps (704 × 576, 640 × 512, 320 × 240) 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 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, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, SFTP, SRTP				
Network Storage	MicroSD/SDHC/SDXC card (up to 256 G) local storage, NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)				
ΑΡΙ	ISAPI, HIKVISION SDK, and third-party management platform, Open Network Video 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 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering				
Client	iVMS-4200, Hik-Connect				
Web Browser	Live view (plug-in allowed) : Internet Explorer 11 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 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					
Web Client 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): 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			
FIOLECTION 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

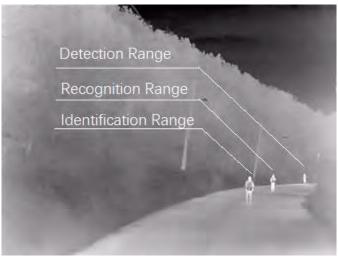
* The table is only for reference and the performance may vary according to different environment.

* 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 (Vehicles: 1.4 ×	Detection Range (Humans: 1.8 ×	Recognition Range (Vehicles:	Recognition Range (Humans:	Identification Range (Vehicles:	Identification 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.

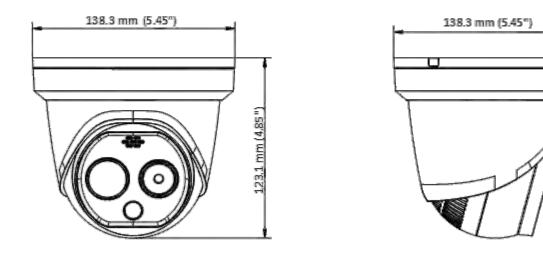
VCA Range (Vehicles: 1.4 ×	e (Vehicles: 1.4 × VCA Range (Humans: 1.8 × Temperature Measurement		Temperature Measurement
4.0 m)	0.5 m)	(Object: 0.2 × 0.2 m)	(Object: 1 × 1 m)
144.9 m	55.2 m	23.3 m	116.7 m

Available Model

DS-2TD1228-7/QA



Dimension



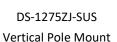
Unit: mm [Inch]

Accessory

Optional



L DS-1271ZJ-140 Pendant Mount



DS-1273ZJ-140 Wall Mount



DS-1280ZJ-DM21 Junction Box

DS-1273ZJ-140B Wall Mount

DS-1273ZJ-140 (BLACK)

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