

HIKVISIO

DS-2TD1228-2/QA Thermal & Optical Bi-spectrum Network Turret Camera



Hikvision DS-2TD1228-2/QA Thermal & Optical Bi-spectrum Network Turret Camera can be applied to villas, communities, parking lots, 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)</p>
- 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
- Support smoking detection algorithm
- Support sun-reflection filter



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# 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	2.1 mm				
IFOV	5.71 mrad				
Field of View	90.0° × 65.4° (H × V)				
Min. Focusing Distance	0.1 m				
Aperture	F1.0				
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				
Shutter Speed	1 s to 1/100,000 s				
Focal Length	2.2 mm				
Field of View	117.8° × 70.4° (H × V)				
Aperture (Range)	F2.25				
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 line)				
Temperature Range	-20°C to 150°C (-4°F to 302°F)				
Temperature Accuracy	±8°C (±14.4°F)				
General Function	Fire detection, smoking detection, sun-reflection filter				



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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:				
Sub-stream	25 fps (704 × 576, 640 × 512, 320 × 240)				
	Optical:				
	50 Hz: 25 fps (704 × 576, 352 × 288)				
	60 Hz: 30 fps (704 × 480, 352 × 260)				
	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				
	G.722.1/G.71101aw/G.71101aw/WF2L2/G.720/PCW				
Network	ID. A /ID. C. LITTO LITTO, 202 4. O.C. FTD CMATD LIDED CAMAD DATE DATE ATTO DEC				
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,				
	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, TP, Bonjour, SFTP, SRTP, TLS				
Network Storage	MicroSD/SDHC/SDXC card (up to 256 G) local storage, NAS (NFS, SMB/CIFS), Auto				
	Network Replenishment (ANR)				
API	ISAPI, HIKVISION SDK, ISUP, and third-party management platform, Open 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				
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				
	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				
Addio Input	Line input: 2 - 2.4 V [p-p], output impedance: 1 K $\Omega$ $\pm$ 10%				
Audio Output	Linear level, impedance: 600 $\Omega$				
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				
POWER NUMBIN	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		
Dratastian Laura	IP67 Standard		
Protection Level	TVS 6000V lightning protection, surge protection, voltage transient protection		
Dimensions	imensions 138.3 mm × 138.3 mm × 123.1 mm (5.45" × 5.45" × 4.85")		
Weight	940 g (2.07 lb)		

## Range Table

VCA Rang (Vehicles: 1.4 4.0 m)		Temperature Measurement (Object: 0.2 ×0. 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 0.2 × 0.2 m)	Smoking Detection
50.4. m	16.8m	7 m	35 m	21.6m	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.

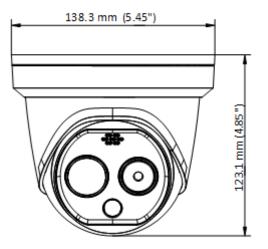
Detection Range (Vehicles: 1.4 × 4.0 m)	Detection Range (Humans: 1.8 $\times$ 0.5 m)	Recognition Range (Vehicles: 1.4 $\times$ 4.0 m)	Recognition Range (Humans: 1.8 $\times$ 0.5 m)	Identification Range (Vehicles: 1.4 $\times$ 4.0 m)	Identification Range (Humans: 1.8 $\times$ 0.5 m)
268 m	88 m	67 m	22 m	34 m	11 m

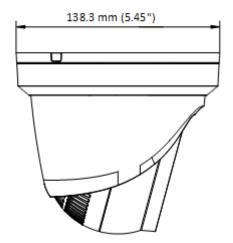
### • Available Model

DS-2TD1228-2/QA DS-2TD1228-2/QA(U)



#### 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
12	-7		4 6 6	
DS-1280ZJ-DM21 Junction box	DS-1273ZJ- 140(BLACK) Wall mount			

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