

DS-2TD1228-3/QA Thermal & Optical Bi-spectrum Network Turret Camera





Hikvision DS-2TD1228-3/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 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 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



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	3.6 mm				
IFOV	3.33 mrad				
Field of View	50.0° × 37.3° (H × V)				
Min. Focusing Distance	0.4 m				
Aperture	F1.0				
Digital Zoom	×2, ×4				
Optical Module					
Image Sensor	1/2.7" Progressive Scan CMOS				
Resolution	2688 × 1520				
Min. Illumination	0.0089Lux @(F1.6,AGC ON) ,0 Lux with IR				
Shutter Speed	1 s to 1/100,000 s				
Focal Length 4.3 mm					
Field of View					
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) 2				
Audio alarm	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),				
VCA	up to 8 VCA rules in total.				
Temperature Maggarement	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas,				
Temperature Measurement	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				



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,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				
User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filteri				
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	* * * * * * * * * * * * * * * * * * * *			
Alarm Action	• • • • • • • • • • • • • • • • • • • •			
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: 600Ω			
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 \pm 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: -40°C to 65°C (-40°F to 149°F)			
Temperature/Humidity	Humidity: 95% or less			
Protection Level	IP67 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)				

Range Table

VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Smoking
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Measurement	Measurement	(Object: 0.2 ×	Detection
4.0 m)	0.5 m)	(Object: 0.2 × 0.2	(Object: $1 \times 1 \text{ m}$)	0.2 m)	
		m)			
75.6 m	28.4m	11.7 m	58.3 m	43.2m	5.4m

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^{*} 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.

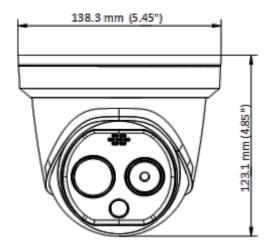
Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	$1.4 \times 4.0 \text{ m}$	$1.8 \times 0.5 \text{ m}$	$1.4 \times 4.0 \text{ m}$	1.8 × 0.5 m)
460 m	150 m	112 m	38 m	56 m	19 m

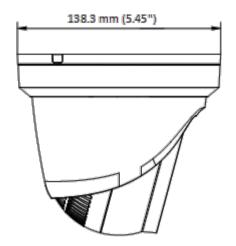
Available Model DS-2TD1228-3/QA DS-2TD1228-3/QA(U)

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



Dimension





Accessory

Optional

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