

DS-2TD1228T-2/QA Bi-spectrum Thermography Network Turret Camera

HeatPro





Hikvision DS-2TD1228T-2/QA Bi-spectrum Thermography Network Turret Camera can be applied to warehouses, construction sites, waste incineration plants, manufacturing workshops, etc. The accurate temperature measurement device sends temperature exception alarms for loss prevention.

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 550°C (-4°F to 1,022°F), Max. (± 2°C, ± 2%)
- Smoking detection Algorithm
- 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, F# = 1.0)
Focal Length	2.1 mm
IFOV	5.71 mrad
Aperture	F1.0
Field of View	90.0° × 65.4° (H × V)
Min. Focusing Distance	0.1 m
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
Field of View	117.8° × 70.4° (H × V)
Focal Length	2.2 mm
Shutter Speed	1 s to 1/100,000 s
	MWB/AWB1/Locked WB/Fluorescent Lamp/Incandescent Lamp/Warm Light
White Balance	Lamp/Natural Light
Day & Night Mode	IR Cut Filter with Auto Switch
WDR	120 dB
Aperture	F2.25
Image Effect	
Bi-spectrum Image Fusion	Display the details of optical channel on thermal channel
Picture in Picture	Display partial image of thermal channel on the full screen of optical channel
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 three types of audible alarm (VCA and Temperature Exception)
Audio alarm	3 preset voice alerts (one for each)
	6 importable user-defined voice alerts (6 options shared in the two types)
Smart Function	o importable aser defined voice dierts (o options shared in the two types)
	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8
VCA	VCA rules in total.
	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1
Temperature Measurement	line)
Temperature Range	-20°C to 550°C (-4°F to 1022°F)
Temperature Accuracy	Max. (± 2°C, ± 2%)
I Chiperature Accuracy	$V(0, 1 \leq C_{j} \leq 2/0)$



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)				
	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	···, ···, ···, ···, ···, ···, ···				
	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,				
Protocols	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, TP, Bonjour, SFTP, SRTP, SSL				
	MicroSD/SDHC/SDXC card (up to 256 GB) local storage, NAS (NFS, SMB/CIFS), Auto				
Network Storage	Network Replenishment (ANR)				
	ISAPI, HIKVISION SDK, and third-party management platform, Open Network Video				
API	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 access control, IP address filtering				
Client	iVMS-4200, Hik-Connect				
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				
	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,				
Menu 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)				
	12 VDC ± 25%: 0.5 A, Max. 6 W				
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				
Power Consumption Working Temperature/Humidity					



Protection Level	IP66 Standard TVS 4000V 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

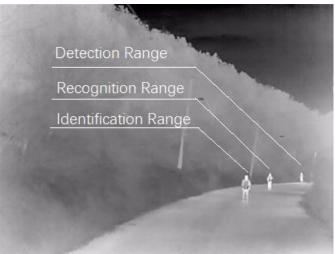
* The table is only for reference and the performance may vary according to different environment.

* 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)
268 m	88 m	67 m	22 m	34 m	, 11 m

Smart Function Table

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

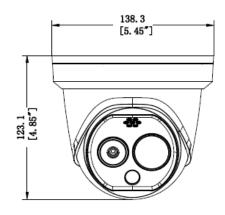
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 0.2 ×0.2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 0.2 × 0.2 m)	Smoke detection (Object: 0.5 × 0.5 m)	Smoking Detection
50.4 m	16.8 m	7 m	35 m	25.2 m	11 m	3.15 m

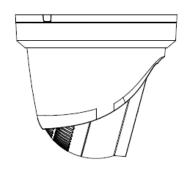
Available Model

DS-2TD1228T-2/QA

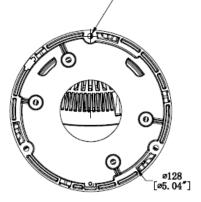


Dimension





-3-ø4.6[ø0.18″]



Unit:mm[Inch]

Accessory





DS-1280ZJ-DM21

Junction Box



DS-1273ZJ-140

Wall Mount



DS-1273ZJ-140B Wall Mount



DS-1275ZJ-SUS Vertical Pole Mount



DS-1273ZJ-140 (BLACK)



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