

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





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 (0.33 ft.)			
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	F 2.3			
mage 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.			
lluminator				
R Distance	Up to 15 m (49 ft.)			
R Intensity and Angle	Automatically adjusted			
Audible and Visual Alarm				
White Light Range	Up to 30 m (98 ft.)			
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)			
תענוט מומדוו	6 importable user-defined voice alerts (6 options shared in the two types)			
Smart Function				
	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%)			
remperature Accuracy	$[Vig., (\pm 2, 0, \pm 2/0]]$			



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					
NCLWUIN	IDVA/IDV6 HTTD HTTDS 802 1x Cas ETD SMATD LIDED SNIMD DNS DDNS NTD DTSD				
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				
Network Storage	MicroSD/SDHC/SDXC card (up to 256 GB) local storage, NAS (NFS, SMB/CIFS), Auto				
-	Network Replenishment (ANR)				
API	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 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				
Audia Insut	1, 3.5 mm Mic in/Line in interface				
Audio Input	Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 10%				
Audio Output	Linear level, impedance: 600 Ω				
	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.				
Communication Interface	1, RS-485 interface (half duplex)				
General					
	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,				
	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,				
Menu Language	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)				
	12 VDC ± 25%: 0.5 A, Max. 6 W				
Power Consumption	PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, Max. 6.5 W				
	Temperature: -40°C to 65°C (-40°F to 149°F)				
Working Temperature/Humidity	Humidity: 95% or less				
	Turnuity. 35 /0 01 1855				



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

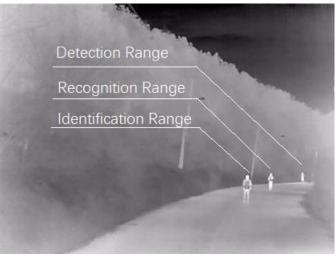
* The table is only for reference and the performance may vary according to different environment.

* 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 (879 ft.)	88 m (288 ft.)	67 m (219 ft.)	22 m (72 ft.)	34 m (111 ft.)	11 m (36 ft.)

Smart Function Table

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

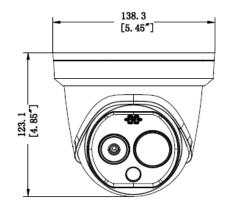
VCA Range (Vehicles: 1.4 ×	VCA Range (Humans: 1.8 ×	Temperature Measurement	Temperature Measurement
4.0 m)	0.5 m)	(Object: 0.2 × 0.2 m)	(Object: 1 × 1 m)
50.4 m (165 ft.)	16.8 m (55 ft.)	7 m (23 ft.)	35 m (115 ft.)

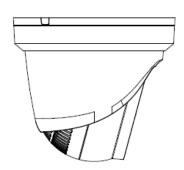
Available Model

DS-2TD1228T-2/QA

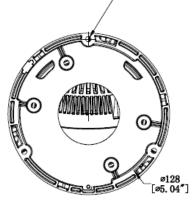


Dimension





/─3**-**ø4.6[ø0.18″]



Unit:mm[Inch]

Accessory

Optional



PC140 140mm Pendant Cap

Requires WML



Mount Requires PC140



WML Long Wall Mount w/Back Box

Requires PC140



PM Pole Mount

Requires WML



CM Corner Mount

Requires WML



CB135 Conduit Base

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



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