

HM-TD2638T-4/G1/T3Y

Thermographic Thermal & Optical Bi-spectrum Network Bullet Camera



















HM-TD2638T-4/G1/T3Y Thermographic Thermal & Optical Bi-Spectrum Network Bullet Camera can be applied to substations, hydropower stations, waste incineration plants, manufacturing workshops, etc. The accurate temperature measurement device sends temperature exception alarms for loss prevention.

Features

- 384 × 288 resolution, 12 μm, VOx UFPA, NETD ≤ 20 mK (25°C, F1.0)
- Extended human/vehicle detection distance and ultra decrease false alarm by GUANLAN Large-Scale AI Model
- Temperature exception alarm for fire prevention, -20 °C to 650 °C (-4 °F to 1202 °F), Max. (± 2 °C, ± 2%)
- Support smoking detection Algorithm
- Support Fire detection and smoke detection Algorithm
- Support sun-reflection filter and forklift alarm filter algorithm (forklift alarm filter is exclusive with VCA function)
- Built-in TPM2.0 encryption module for cybersecurity
- 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	384 x 288			
Pixel Pitch	12 μm			
NETD	≤ 20 mK (@25° C,F# = 1.0)			
Focal Length	4.4 mm			
IFOV	2.73 mrad			
Aperture	F1.0			
Field of View	60.2° × 40.6° (H × V)			
Min. Focusing Distance	0.6 m			
Digital Zoom	×2, ×4, ×8			
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	128.3° × 75.4° (H × V)			
Focal Length 2.2 mm				
Shutter Speed	1 s to 1/100,000 s			
White Balance	MWB/AWB1/Locked WB/Fluorescent Lamp/Incandescent Lamp/Warm Light			
	Lamp/Natural Light			
Day & Night Mode	IR Cut Filter with Auto Switch			
WDR	120 dB			
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.			
EIS	Thermal channel supports EIS, exclusive with all smart functions except smoke detection			
Illuminator	detection			
IR Distance	Up to 30 m			
IR Intensity and Angle	Automatically adjusted			
Smart Function				
	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting),			
VCA	up to 8 VCA rules in total.			
Town and we Manager	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas,			
Temperature Measurement	and 1 line)			
Temperature Range	-20 °C to 650 °C (-4 °F to 1202 °F)			
Temperature Accuracy	Max (± 2 °C, ±2 %)			
Fire Detection	Dynamic fire detection, up to 10 fire points detectable			
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Smoking Detection	Up to 10 smoking points detected		
Smoke Detection	Support smoke detection on optical channel		
Video and Audio			
	Optical channel		
	50 HZ: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)		
Main Stream	60 HZ: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)		
	Thermal channel		
	25 fps (1280×720P, 704×576, 352×288, 384×288)		
	Optical channel		
	50 HZ: 25 fps (704 × 576, 352 × 288)		
Sub-stream	60 HZ: 30 fps (704 × 480, 352 × 240)		
	Thermal channel		
	25 fps (704 × 576, 352 × 288, 384 × 288)		
Video Compression	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		
Video and Image			
	17 types (White hot, Black hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1, Ironbow		
Color Palettes	2, Sepia, Color 1, Color 2, Ice fire, Rain, Red hot, Green hot, Dark blue, Winter,		
	Summer)		
Network	ID AVID A LITTE LITTER COO A CO ETE CLATE LIE E CALLE ENG DENG		
Duatagala	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS,		
Protocols	NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE,TP,Bonjour,SFTP,SRTP,TLS		
	MicroSD/SDHC/SDXC card (up to 512 G) local storage, NAS (NFS, SMB/CIFS),		
Network Storage	Auto Network Replenishment (ANR)		
	ISAPI,ISUP, HIKVISION SDK, and third-party management platform, Open		
API	Network Video Interface, ONVIF (Profile S, Profile G, Profile T, Profile M), OTAP		
Simultaneous Live View	Up to 20 channels		
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User		
Coourity	User authentication (ID and password), MAC address binding, HTTPS		
Security	encryption, IEEE 802.1x access control, IP address filtering		
Client	iVMS-4200, Hik-Connect		
Interface			
Alarm Input	2, alarm input (0-5 VDC)		
Alarm Output	2-ch, relay outputs (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		
Λααίο πιραί	Line input: 2 - 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)			
Analog Output	1.0V [p-p]/75Ω, PAL/NTSC/BNC			
General				
Menu Language	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, Germar 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)			
Dower Supply	24 VAC ± 25%, 12 VDC ± 25%,24VDC two-core terminal block			
Power Supply	PoE (802.3af, class 3)			
	24 VAC ± 25%: 0.33 A to 0.55 A, max. 12.1W			
Dower Consumption	12 VDC ± 25%: 0.8 A to 1.33 A, max. 11.3W			
Power Consumption	24VDC ± 25%: 0.28A to 0.75 A, max. 18W			
	PoE (802.3af, class 3): 36 V to 57 V, 0.33 A to 0.21 A, max. 11.8W			
Working	Temperature: -40°C to 70°C (-40°F to 158°F)			
Temperature/Humidity	Humidity: 95% or less			
Protection Level	IP67 Standard TVS 4000V lightning protection, surge protection, voltage transient protection IK10-rated housing NEMA 4X anti-corrosion housing			
Dimensions	376.1 mm × 119.1 mm × 118.1 mm (14.81" × 4.68" × 4.65")			
Weight	1.82 kg (4.01 lb)			
Detection Range Table				
VCA Range for Humans	52 m			
VCA Range for Vehicles	120 m			
Approval				
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN50130-4: 2011+A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 7) KC (KSC9832: 2019; KSC9835: 2019)			
Safety	CB: IEC 62368-1: 2014+A11; CE-LVD: EN 62368-1: 2014/A11: 2017; BIS: IS 13252 (Part 1): 2010/ IEC 60950-1: 2005 LOA: SANS/IEC 60950-1			
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation(EC) No 1907/2006			



Protection	IP67: IEC 60529-2013 IK10: IEC 62262-2002
Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018)

Range Table

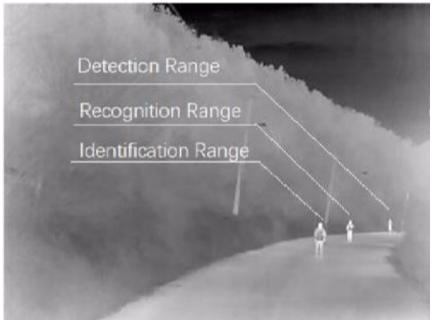
*The table is only for reference and the performance may vary according to different environment.

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: 0.5 × 0.5 m)	Fire Detection (Object: 0.5 × 0.5 m)	Smoke detection (Object: 0.5 × 0.5m)
120 m	52 m	13.2m	33m	13.2m	6.6m

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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)
562 m	183 m	141 m	46 m	70 m	23 m

Typical Application

HIKMICRO products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

^{*}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.



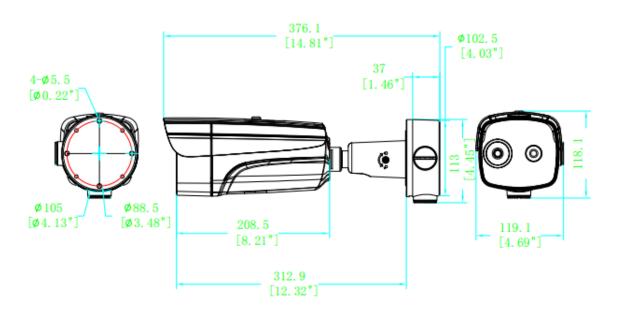
No products could be used under HYDROGEN FLUORIDE environment. This model has MODERATE PROTECTION.

Level	Description
	HIKMICRO products at this level are equipped for use
	in areas where professional anti-corrosion protection
Top-level Protection	is a must. Usually it is used in salt-spray and sulfur
10p-level F10tection	dioxide (with a concentration volume ratio of less than
	0.67%) environment, such as chemical plants and
	coastal lines.
	HIKMICRO products at this level are equipped for use
	in areas with moderate anti-corrosion demands.
Moderate Protection	Typical application scenarios include coastal areas
	about 2 kilometers (1.24 miles) away from coastlines,
	as well as areas affected by acid rain.
	HIKMICRO products at this level are equipped for use
No Specific Protection	in areas where no specific anti-corrosion protection is
	needed.

Available Model

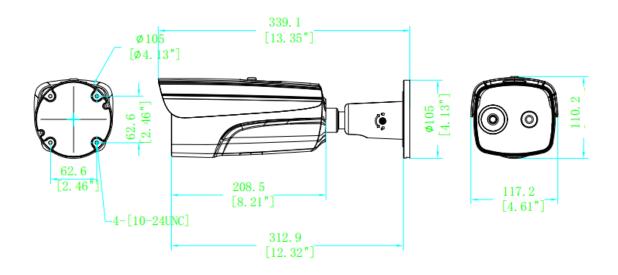
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Dimension



Unit:mm[Inch]





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- Accessory
- Included

DS-1260ZJ-AC#SA Junction box



Optional

DS-1275ZJ-S-SUS Vertical pole mount DS-1276ZJ-SUS Corner mount





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 Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.



