

HM-TD2638-10/G0/T1Y Thermal & Optical Bi-spectrum Network Bullet Camera







HM-TD2638-10/G0/T1Y Anti-corrosion Bi-spectrum Network Bullet Camera is applied to perimeter protection and fire-prevention purposes in critical infrastructures such as: airport, railway, prison, power station, 4S stores, and so on. With the vanadium oxide uncooled focal plane sensor, it enhances the thermal image quality. It adopts anti-corrosion coating to meet the requirements of used in anti-corrosion environment.

Features

- 384×288 resolution, $12 \mu m$, VOx UFPA, NETD $\leq 20 \text{ mK}$ (25°C , F1.0)
- Video content analysis 3.0 (VCA3.0): high accuracy vehicle/human detection and classification
- Temperature exception alarm for fire prevention, -20°C to 150°C (-4°F to 302°F), ± 8°C (± 14.4°F)
- Fire detection and smoking detection Algorithm
- Support sun-reflection filter algorithm
- 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

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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	9.7 mm		
IFOV	1.24 mrad		
Aperture	F1.0		
Field of View	26.5° × 19.8° (H × V)		
Min. Focusing Distance	1.5 m		
Digital Zoom	×2,×4, ×8		
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		
Field of View	51.9° × 28° (H × V)		
Focal Length	6.4 mm		
Shutter Speed	1 s to 1/100,000 s		
White Balance	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		
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 channle supports EIS, exclusive with all smart functions		
Illuminator			
IR Distance	Up to 50m		
IR Intensity and Angle	Automatically adjusted		
Smart Function			
VCA	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 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)		
Fire Detection	Dynamic fire detection, up to 10 fire points detectable		
Smoking Detection	Up to 10 smoking points detected		



Video and Audio			
Main Stream	Optical channel 50 HZ: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 HZ: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) Thermal channel 25 fps (1280×720P, 704×576, 352×288, 384×288)		
Sub-stream	Optical channel 50 HZ: 25 fps (704 × 576, 352 × 288) 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 Sub-Stream: H.265/H.264/MJPEG		
Audio Compression	G.722.1/G.711ulaw/G.711alaw/MP2L2/G.726/PCM		
Video and Image			
Color Palettes	17 types (White hot, Black hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1, Ironbow 2, Sepia, Color 1, Color 2, Ice fire, Rain, Red hot, Green hot, Dark blue, Winter, Summer)		
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 512 G) local storage, NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)		
API	ISAPI,ISUP, HIKVISION SDK, and third-party management platform, Open 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		
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	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 Line input: 2 - 2.4 V [p-p], output impedance: 1 K Ω ± 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)		
Analog Output	1.0V [p-p]/75Ω, PAL/NTSC/BNC		
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	General	
		32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian,
Men	Menu Language	Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish,
		Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian,
		Portuguese (Brazil)
	Power Supply	24 VAC ± 25%, 12 VDC ± 25%,24VDC two-core terminal block
	т оттел опррту	PoE (802.3af, class 3)
		24 VAC ± 25%: 0.33 A to 0.55 A, max. 12.1W
	Power Consumption	12 VDC ± 25%: 0.8 A to 1.33 A, max. 11.3W
		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 IP67 Standard
		TVS 4000V lightning protection, surge protection, voltage transient protection
	Protection Level	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	130 m
	VCA Range for Vehicles	300 m
	Approval	
		CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019,
		EN50130-4: 2011+A1: 2014);
	EMC	RCM (AS/NZS CISPR 32: 2015);
		IC (ICES-003: Issue 7)
		KC (KSC9832: 2019; KSC9835: 2019)
		CB: IEC 62368-1: 2014+A11; CE-LVD: EN 62368-1: 2014/A11: 2017;
	Safety	BIS: IS 13252 (Part 1): 2010/ IEC 60950-1: 2005
		LOA: SANS/IEC 60950-1
		CE-RoHS: 2011/65/EU,
	Environment	WEEE: 2012/19/EU,
		Reach: Regulation(EC) No 1907/2006
		IP67: IEC 60529-2013
	Protection	IK10: IEC 62262-2002
	Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018)
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Range Table

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

VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Smoking
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Measurement	Measurement	(Object: 0.5 ×	Detection

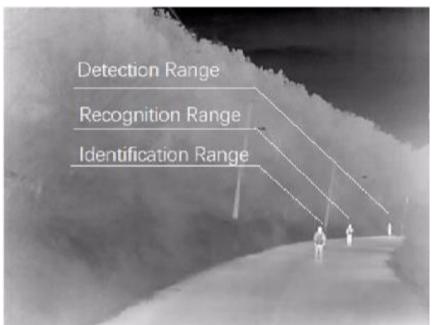


4.0 m)	0.5 m)	(Object: 0.2 × 0.2 m)	(Object: 0.5 × 0.5 m)	0.5m)	
300 m	130 m	29.1m	72m	38.4m	14.6m

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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)

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.

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

Level	Description
Top-level Protection	HIKMICRO products at this level are equipped for use in
	areas where professional anti-corrosion protection is a
	must. Usually it is used in salt-spray and sulfur dioxide
	(with a concentration volume ratio of less than 0.67%)
	environment, such as chemical plants and coastal lines.
M. J. A. D. A. Aire	HIKMICRO products at this level are equipped for use in
Moderate Protection	areas with moderate anti-corrosion demands. Typical

^{*}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.



	application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No Specific Protection	HIKMICRO products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

- Available Model HM-TD2638-10/G0/T1Y
- 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.



