HM-TD2618-8/G0/T1A
Thermal & Optical Bi-spectrum Network Bullet Camera

HM-TD2618-8/G0/T1A Thermal & Optical Bi-spectrum Network Bullet Camera supports video analysis for perimeter protection, and also temperature exception alarm for early fire prevention. With the deep learning algorithm, it can realize high precision VCA detection and real-time alarm. These camera series can be widely applied to villas, communities, parking lots, warehouses, construction sites, waste incineration plants, manufacturing workshops, etc.

- 160 × 120 resolution, 12 μm, VOx UFPA, NETD ≤35 mK (25°C, F1.0)
- Video content analysis 3.0 (VCA3.0): high accuracy vehicle/human detection and classification
- Support smart hybrid light: white light, IR and smart mode
- Temperature exception alarm for fire prevention, -20°C to 300°C (-4°F to 572°F), ± 8°C (± 14.4°F)
- Support fire point detection algorithm
- Support smoking detection algorithm
- Support sun-reflection filter 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	160 × 120
Pixel Pitch	12 μm
Spectral Range	8 μm to 14 μm
NETD	≤35 mK (25°C, F1.0)
Focal Length	8 mm
IFOV	1.24mrad
Field of View	18.0° × 13.5° (H × V)
Min. Focusing Distance	1.5 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	12.4
Field of View	24.6° × 14° (H × V)
Aperture (Range)	F1.6
WDR	120 dB

Image Effect

Target Coloration	Yes. Supported in white hot and black hot mode.

Illuminator

Light Supplement	Hybrid (IR, White light or Smart mode)
IR Distance	Up to 80m

Audible and Visual Alarm

White Light Range	Up to 80 m
Visual Alarm	Yes. White light alarm with adjustable flashing frequencies
Audio alarm	Yes, for two types of audible alarm (VCA and Temperature Exception) 2 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), 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 300°C (-4°F to 572°F)
Temperature Accuracy	±8°C (±14.4°F)
Fire Detection	Dynamic fire detection, up to 10 fire points detectable
Video and Audio	
Main Stream	Thermal: 25 fps (1920 × 1080, 1280 × 960, 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
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,Bonjour,SFTP,SRTP
Network Storage	MicroSD/SDHC/SDXC card (up to 512 G) 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), 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 PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering
Client	iVMS-4200, Hik-Connect
Web Browser	Live view (plug-in allowed) : Internet Explorer 11 Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 + Local service : Chrome 57.0+, Firefox 52.0 +
Interface	
Alarm Input	2, alarm input (0-5 VDC)
Alarm Output	2, 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 - 2.4 V [p-p], output impedance: 1 KΩ ± 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	
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 ± 25%, two-core terminal block
	PoE (802.3at, class 4)
Power Consumption	12 VDC ± 25%: 1.67A to 2.5 A, max. 24W
	PoE (802.3at, class 4): 42.5 V to 57 V, 0.56 A to 0.42 A, max. 24W
Working Temperature/Humidity	Temperature: -40°C to 65°C (-40°F to 149°F)
	Humidity: 95% or less
Protection Level	IP67 Standard, IK10
	TVS 6000V lightning protection, surge protection, voltage transient protection
Dimensions	349.1 mm × 113 mm × 105mm
Weight	1710 g
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

▪ Range Table

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

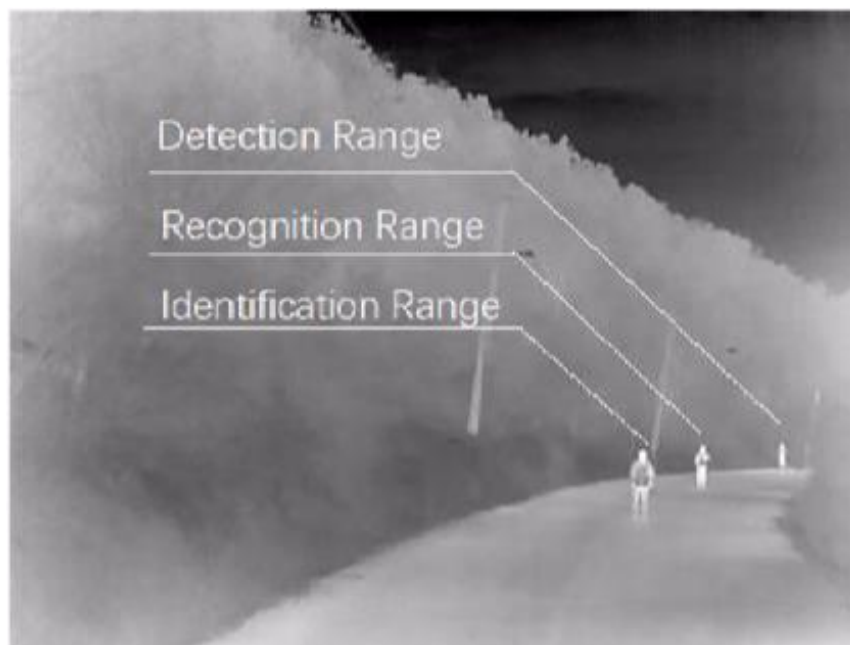| VCA Range (Humans: 1.8 × 0.5 m)	VCA Range (Vehicles: 1.4 × 4.0 m)	Temperature Measurement (Object: 1 × 1 m)	Temperature Measurement (Object: 0.2 × 0.2 m)	Fire Detection (Object：0.2 × 0.2m)	Smoking Detection
100m	300m	161.7m	32.3m	116.4m	14.55m

⋅ DORI

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.

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 (Humans: 1.8 × 0.5 m)	Detection Range (Vehicles: 1.4 × 4.0 m)	Recognition Range (Humans: 1.8 × 0.5 m)	Recognition Range (Vehicles: 1.4 × 4.0 m)	Identification Range (Humans: 1.8 × 0.5 m)	Identification Range (Vehicles: 1.4 × 4.0 m)
240m	570m	60m	140m	30m	70m

⋅ 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.

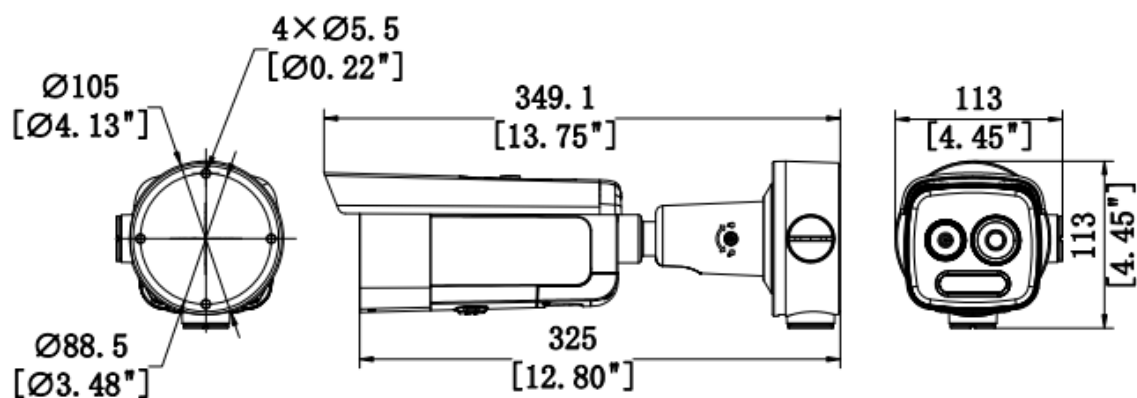No products could be used under HYDROGEN FLUORIDE environment. This model has No Specific PROTECTION.

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

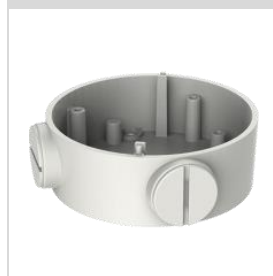|	
	0.67%) environment, such as chemical plants and coastal lines.
Moderate Protection	HIKMICRO products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well 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-TD2618-8/G0/T1A

Dimension

Accessory

Included

DS-1260ZJ
Junction box

Optional

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