

# HM-TD2628-7/G1/T3A Thermal & Optical Bi-spectrum Network Bullet Camera







HM-TD2628-7/G1/T3A Thermal & Optical Bi-spectrum Network Bullet Camera supports video analysis based on GUANLAN Large Scale Al Model for perimeter protection, and temperature exception alarm. 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, etc.

#### Features

- 256 × 192 resolution, 12 µm, VOx UFPA, NETD ≤25 mK (25°C, F1.0)
- Extended human/vehicle detection distance and ultra-low false alarm with GUANLAN Large-Scale AI Model
- Support smart hybrid light: white light, IR and smart mode
- Temperature exception alarm, -20 °C to 150 °C (-4 °F to 302 °F), ± 8°C (± 14.4°F)
- Support fire point detection algorithm
- Support smoking detection algorithm
- Image processing technology: linear, histogram, self-adaptive thermal AGC mode, DDE, 3D DNR
- High quality detector with 10 years guarantee



# - Specification

Resolution 2 Pixel Pitch	Vanadium Oxide Uncooled Focal Plane Arrays  256 × 192  12 µm			
Pixel Pitch	12 μm			
	<u> </u>			
Spectral Range 8				
	8 μm to 14 μm			
NETD :	≤25 mK (25°C, F1.0)			
Focal Length 6	6.9mm			
IFOV	1.74mrad			
Field of View 2	24.9° × 18.7° (H × V)			
Min. Focusing Distance	1 m			
Aperture F	F1.0			
Digital Zoom	×2, ×4			
Optical Module				
Image Sensor	1/2.7" Progressive Scan CMOS			
Resolution !	5MP, 2688 × 1944			
Min. Illumination	0.0089Lux @(F1.6,AGC ON) ,0 Lux with IR			
Shutter Speed	1 s to 1/100,000 s			
Focal Length 8	8			
Field of View	39.4° × 22° (H × V)			
Aperture (Range)	F1.6			
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.			
Illuminator				
Light Supplement	Hybrid (IR, White light or Smart mode)			
IR Distance	Up to 60m			
Audible and Visual Alarm				
, ,	Up to 60 m			
	Yes. White light alarm with adjustable flashing frequencies			
	Yes, for two types of audible alarm (VCA and Temperature Exception)			
	2 preset voice alerts (one for each)			
Smart Function	6 importable user-defined voice alerts (6 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.			
Temperature Measurement 3	3 temperature measurement rule types (point, area, line), 21 rules in total			
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		
Video and Audio			
Main Stream	Thermal:		
	25 fps (1280 × 720, 704 × 576, 640 × 512, 320 × 240)		
	Optical:		
	50 Hz: 25 fps (2688 × 1944, 2688 × 1520, 1920 × 1080, 1280 × 720)		
	60Hz: 30 fps (2688 × 1944, 2688 × 1520, 1920 × 1080, 1280 × 720)		
	Thermal:		
	25 fps (704 × 576, 640 × 512, 320 × 240)		
Sub-stream	Optical:		
oub officially	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		
Video and Image	5.7 22.17 6.7 1 Talall, 7.11 222, 6.7 25,1 6.11		
•	17 types (White hot, Black hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1, Ironbow 2,		
Color Palettes	Sepia, Color 1, Color 2, Ice fire, Rain, Red hot, Green hot, Dark blue, Winter, Summer)		
Network			
	IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RT		
Network Protocols	IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RT CP,RTP,TCP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour,SFTP,SRTP		
Protocols	CP,RTP,TCP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour,SFTP,SRTP MicroSD/SDHC/SDXC card (up to 512 G) local storage, NAS (NFS, SMB/CIFS), Auto		
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Protocols  Network Storage  API  Simultaneous Live View  User/Host level  Security  Client	CP,RTP,TCP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour,SFTP,SRTP  MicroSD/SDHC/SDXC card (up to 512 G) local storage, NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)  ISAPI, ISUP, HIKVISION SDK, and third-party management platform, Open Network Video Interface (Profile S, Profile G, Profile T, Profile M),OTAP  Up to 20 channels  Up to 32 users, 3 levels: Administrator, Operator, User  User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering iVMS-4200, Hik-Connect  Live view (plug-in allowed): Internet Explorer 11		
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Audio Output	Linear level, impedance: 600 $\Omega$	
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.	
Communication interface	1, RS-485 interface (half duplex)	
Power Output	12 VDC, max 1W	
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	
Power Supply	PoE (802.3at, class 4)	
D	12 VDC ± 25%: 1A to 1.7 A, max. 16W	
Power Consumption	PoE (802.3at, class 4): 42.5 V to 57 V, 0.28 A to 0.37 A, max. 16W	
Working	Temperature: -40°C to 65°C (-40°F to 149°F)	
Temperature/Humidity	Humidity: 95% or less	
	IP67 Standard, IK10	
Protection Level	TVS 6000V lightning protection, surge protection, voltage transient protection	
Dimensions	349.1 mm × 113 mm × 105mm	
Weight	1710 g	
Detection Range Table		
VCA Range for Humans	84 m	
VCA Range for Vehicles	210 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)	
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.

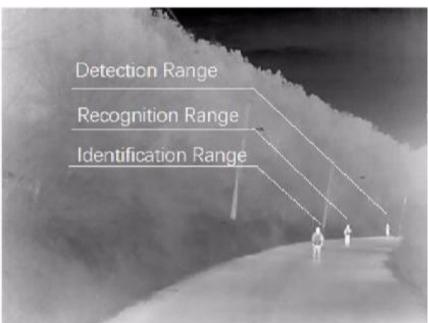
VCA Range (Humans: 1.8 × 0.5 m)	VCA Range (Vehicles: 1.4 × 4.0 m)	Temperature Measurement (Object: 1 × 1 m)	Temperature Measurement (Object: 0.2 × 0.2 m)	Fire Detection (Object: 0.5 × 0.5 m)	Smoking Detection
84 m	207 m	116.7m	23.3m	48m	10.35m

#### DORI

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.



<b>Detection Range</b>	<b>Detection Range</b>	Recognition	Recognition	Identification	Identification
(Humans: 1.8 ×	(Vehicles: 1.4 ×	Range (Humans:	Range (Vehicles:	Range (Humans:	Range (Vehicles:
		1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)
0.5 m)	4.0 m)	1.6 × 0.5111)	1.4 ^ 4.0111)	1.0 × 0.0111)	1.4 ^ 4.0111)

# 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
	HIKMICRO products at this level are equipped for use in
Top-level Protection	areas where professional anti-corrosion protection is a
	must. Usually it is used in salt-spray and sulfur dioxide

<sup>\*</sup>The table is only for reference and the performance may vary according to different environment.

<sup>\*</sup>The optimal human detection, recognition, and identification distances are calculated according to Johnson's Criteria.

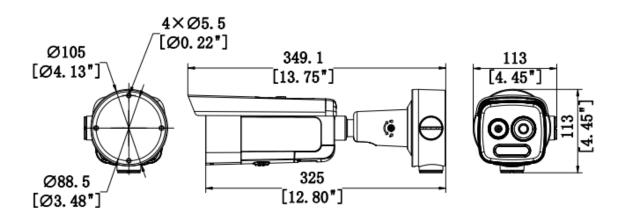


	(with a concentration volume ratio of less than 0.67%) environment, such as chemical plants and coastal lines.
Moderate Protection	HIKMICRO products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (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-TD2628-7/G1/T3A

### Dimension





- Accessory
- Included

DS-1260ZJ Junction box



Optional

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





#### Note

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.



