

HM-TD1218-7/G0/T1A Thermal & Optical Bi-Spectrum Network Turret Camera







HM-TD1218-7/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.

Features

- 160 × 120 resolution, 12 µm, VOx UFPA, NETD ≤ 25 mK (25 °C, F# = 1.0)
- 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, -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

Image Sensor Vanadium Oxide Uncooled Focal Plane Arrays Resolution 160 × 120 Pixel Pitch 12 µm Spectral Range 8 µm to 14 µm NETD ≤25 mK (25°C, F1.0) Focal Length 6.9 mm IFOV 1.74mrad Field of View 24.9° × 18.7° (H × V) Min. Focusing Distance 1.3 m Aperture F1.0 Digital Zoom ×2, ×4 Optical Module Voltacal Module Image Sensor 1/2.7° Progressive Scan CMOS Resolution 5MP, 2688 × 1944 Min. Illumination 0.0098/Lux @(F1.6,AGC ON), 0 Lux with IR Shutter Speed 1 s to 1/100,000 s Focal Length 8 mm Field of View 39.4°(H) x21.96°(V) Aperture (Range) F1.6 WDR 10 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	Thermal Module			
Pixel Pitch 12 μm Spectral Range 8 μm to 14 μm NETD ≤25 mK (25°C, F1.0) Focal Length 6.9 mm IFOV 1.74mrad Field of View 24.9° × 18.7° (H × V) Min. Focusing Distance 1.3 m Aperture F1.0 Opigital Zoom ×2. ×4 Optical Module Image Sensor Image Sensor 1/2.7° Progressive Scan CMOS Resolution 5MP, 2688 × 1944 Min. Illumination 0.00991.ux @(F1.6 AGC ON), 0 Lux with IR Shutter Speed 1 s to 1/100,000 s Focal Length 8 mm Field of View 39.4°(H) ×21.96°(V) Aperture (Range) F1.6 WDR 120 dB Image Effect Image Effect Brapectrum 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 Illuminator Light Supplement Hybrid (IR, White light or Smart mode) IR Distance Up to 60m Audible a	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays		
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Shutter Speed 1 s to 1/100,000 s Focal Length 8 mm Field of View 39.4°(H) x21.96°(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 Illuminator Light Supplement Hybrid (IR, White light or Smart mode) IR Distance Up to 60m Audible and Visual Alarm White Light Range Up to 60 m Visual Alarm Yes. White light alarm with adjustable flashing frequencies Yes, for two types of audible alarm (VCA and Temperature Exception) Audio alarm 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.	Resolution	5MP, 2688 × 1944		
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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 White Light Range Up to 60 m Visual Alarm Yes. White light alarm with adjustable flashing frequencies Yes, for two types of audible alarm (VCA and Temperature Exception) Audio alarm 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 (point, area, line), 21 rules in total	Bi-spectrum Image Fusion	Display the details of optical channel on thermal channel		
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White Light Range Visual Alarm 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) 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 (point, area, line), 21 rules in total	IR Distance	Up to 60m		
Visual Alarm 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) 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 (point, area, line), 21 rules in total	Audible and Visual Alarm			
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to 8 VCA rules in total. Temperature Measurement 3 temperature measurement rule types (point, area, line), 21 rules in total	Official Colors	Δ VCΔ rule types (line crossing intrusion region entrance and region eviting) up		
	VCA			
Temperature Range -20 °C to 150 °C (-4 °F to 302 °F)	Temperature Measurement	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)
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, 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(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	1, 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 K Ω ± 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)	
Dowor Supply	12 VDC ± 25%, φ 5.5 mm coaxial power plug	
Power Supply	PoE (802.3at, class 4)	
Device Concumention	12 VDC ± 25%: 1.1A to 1.8 A, Max 16 W	
Power Consumption	PoE (802.3af, class 3): 42.5 V to 57 V, 0.4 A to 0.3 A, Max 17W	
Working	Temperature: -40°C to 65°C (-40°F to 149°F)	
Temperature/Humidity	Humidity: 95% or less	
Protection Level	IP67 Standard TVS 6000V lightning protection, surge protection, voltage transient protection	
Dimensions	138.3 mm × 138.3 mm × 121.6 mm	
Weight	975.6 g	
Detection Range Table		
VCA Range for Humans	70 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) 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	
	CE-RoHS: 2011/65/EU,	
Environment	WEEE: 2012/19/EU,	
	Reach: Regulation(EC) No 1907/2006	
Protection	IP67: IEC 60529-2013	



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)	Smoking Detection
210 m	70 m	23.3 m	58 m	48 m	10.35 m

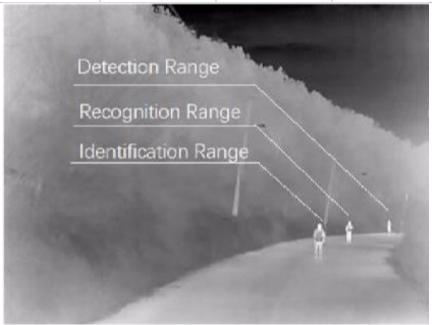
DORI

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.

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 No Specific PROTECTION.

^{*}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.

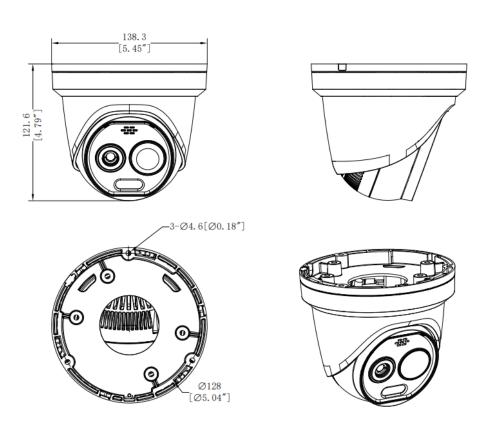


Level	Description
	HIKMICRO products at this level are equipped for use in
	areas where professional anti-corrosion protection is a
Top-level Protection	must. Usually it is used in salt-spray and sulfur dioxide
	(with a concentration volume ratio of less than 0.67%)
	environment, such as chemical plants and coastal lines.
	HIKMICRO products at this level are equipped for use in
	areas with moderate anti-corrosion demands. Typical
Moderate Protection	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 in
No Specific Protection	areas where no specific anti-corrosion protection is
	needed.

Available Model

HM-TD1218-7/G0/T1A

Dimension



- Accessory
- Optional



DS-1275ZJ-SUS Vertical pole mount DS-1273ZJ-140 Wall mount DS-1280ZJ-DM21 Junction box DS-1273ZJ-140B Wall mount DS-1271ZJ-140 Pendant Mount











DS-1273ZJ-140(BLAC K) Wall mount

DS-1276ZJ-SUS Corner mount





*DS-1275ZJ-SUS need to install with DS-1273ZJ wall mount series bracket *DS-1276ZJ-SUS need to install with DS-1273ZJ wall mount series bracket

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.



