

HM-TD2638T-4/G0/T1Y

Thermography & Optical Bi-spectrum Network Bullet Camera







HM-TD2638T-4/G0/T1Y 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.

- 384 × 288 resolution, 12 μm, VOx UFPA, NETD ≤ 20 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 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

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° x 40.6° (H × V) Min. Focusing Distance 0.6 m Digital Zoom x2, x4, x8 Optical Module Image Sensor 1/2.7° Progressive Scan CMOS Resolution 2688 x 1520 Min. Illumination 0.0176Lux @(F2.25,AGC ON), 0 Lux with IR Field of View 128.3° x 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 Illuminator IR Distance Up to 30 m 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 rule sin total. Temperature Measurement 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line) Temperature Range -20° Cto 650° C (.4° F to 1202° F) Temperature Accuracy Max (± 2° C, ± 2° 8) Fire Detection Up to 10 smoking points detected	Thermal Module			
Resolution 384 x 288 Pixel Pitch 12 µm NETD		Vanadium Oxide Uncooled Focal Plane Arrays		
NETD	Resolution	•		
Second Length	Pixel Pitch	12 μm		
Focal Length 4.4 mm IFOV 2.73 mrad Aperture F1.0 Field of View 60.2* x 40.6* (H x V) Min. Focusing Distance 0.6 m Digital Zoom x2, x4, x8 Optical Module Image Sensor 1/2.7* Progressive Scan CMOS Resolution 2688 x 1520 Min. Illumination 0.0176Lux (@(F2.25,AGC ON), 0 Lux with IR Field of View 128.3* x 75.4* (H x V) Focal Length 2.2 mm Shutter Speed 1 s to 1/100,000 s White Balance 180 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. Thermal channel supports EIS, exclusive with all smart functions except smoke detection Illuminator 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 1 1 times of the course, and 1 line) Temperature Range 20 ° C to 650 ° C (-4 ° F to 1202 ° F) Temperature Range 10 ponning fire detection, up to 10 fire points detectable Smoking Detection Up to 10 smoking points detected	NETD	·		
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 18 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. Thermal channel supports EIS, exclusive with all smart functions except smoke detection Illuminator 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 Range 20° to 650 °C (-4 °F to 1202 °F) Temperature Range 40° to 100 moking points detected	Focal Length	, , ,		
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. mm Shutter Speed 1 s to 1/100,000 s White Balance 1st to 1/100,000 s White Balance 1st Cut Filter with Auto Switch Day & Night Mode 1st Rout 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 IR Distance Up to 30 m 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. 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, 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 Smoking Detection Up to 10 smoking points detected	IFOV	2.73 mrad		
Min. Focusing Distance Digital Zoom	Aperture	F1.0		
Digital Zoom x2, x4, x8 Optical Module Image Sensor 1/2.7" Progressive Scan CMOS Resolution 2688 x 1520 Min. Illumination 0.0176Lux @(F2.25,AGC ON), 0 Lux with IR Field of View 128.3" x 75.4" (H x 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 IR Distance Up to 30 m 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. 3 temperature Measurement 2 to 50 °C (-4 °F to 1202 °F) Temperature Range 2-20 °C to 650 °C (-4 °F to 1202 °F) Temperature Accuracy Max (± 2 °C, ±2 %) Fire Detection Up to 10 smoking points detected	Field of View	60.2° × 40.6° (H × V)		
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 IR Intensity and Angle IR Intensity and Angle Automatically adjusted Smart Function 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)	Min. Focusing Distance	0.6 m		
Image Sensor 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 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 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. FIS Thermal channel supports EIS, exclusive with all smart functions except smoke detection Illuminator IR Distance Up to 30 m 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 Temperature Range -20 °C to 650 °C (-4 °F to 1202 °F) Temperature Accuracy Max (± 2 °C, ±2 %) Fire Detection Up to 10 smoking points detected	Digital Zoom	×2,×4, ×8		
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Min. Illumination 0.0176Lux @(F2.25,AGC ON) ,0 Lux with IR Field of View 128.3° x 75.4° (H x 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 IR Distance Up to 30 m 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 650 °C (-4 °F to 1202 °F) Temperature Accuracy Max (± 2 °C, ±2 %) Fire Detection Dynamic fire detection, up to 10 fire points detectable Smoking Detection Up to 10 smoking points detected	Image Sensor	1/2.7" Progressive Scan CMOS		
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 IR Distance 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. 3 temperature Measurement Temperature Measurement 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 Smoking Detection Up to 10 smoking points detected	Resolution	2688 × 1520		
Focal Length 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 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 IR Distance Up to 30 m 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. 3 temperature Measurement Temperature Range -20 °C to 650 °C (-4 °F to 1202 °F) Temperature Accuracy Max (± 2 °C, ±2 %) Fire Detection Up to 10 smoking points detected	Min. Illumination	0.0176Lux @(F2.25,AGC ON) ,0 Lux with IR		
Shutter Speed 1 s to 1/100,000 s White Balance	Field of View	,		
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 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 IR Distance Up to 30 m 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 Temperature Range -20 °C to 650 °C (-4 °F to 1202 °F) Temperature Accuracy Max (± 2 °C, ±2 %) Fire Detection Up to 10 smoking points detected	Focal Length	2.2 mm		
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. Fils Thermal channel supports EIS, exclusive with all smart functions except smoke detection Illuminator IR Distance Up to 30 m IR Intensity and Angle Smart Function VCA 4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total. Temperature Measurement 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 Smoking Detection Up to 10 smoking points detected	Shutter Speed	1 s to 1/100,000 s		
Lamp/Natural Light Day & Night Mode IR Cut Filter with Auto Switch WDR 120 dB Image Effect Bi-spectrum Image Fusion Picture in Picture 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. Thermal channel supports EIS, exclusive with all smart functions except smoke detection Illuminator IR Distance IV p to 30 m 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. 3 temperature Measurement Temperature Measurement Automatically adjusted sin total. 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, 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 Smoking Detection Up to 10 smoking points detected	White Delenee	MWB/AWB1/Locked WB/Fluorescent Lamp/Incandescent Lamp/Warm Light		
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. Els Thermal channel supports EIS, exclusive with all smart functions except smoke detection Illuminator IR Distance Up to 30 m 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 650 °C (-4 °F to 1202 °F) Temperature Accuracy Max (± 2 °C, ±2 %) Fire Detection Dynamic fire detection, up to 10 fire points detectable Smoking Detection Up to 10 smoking points detected	writte balance	Lamp/Natural Light		
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 IR Distance Up to 30 m 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 650 °C (-4 °F to 1202 °F) Temperature Accuracy Max (± 2 °C, ±2 %) Fire Detection Dynamic fire detection, up to 10 fire points detectable Smoking Detection Up to 10 smoking points detected	Day & Night Mode	IR Cut Filter with Auto Switch		
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. ElS Thermal channel supports EIS, exclusive with all smart functions except smoke detection Illuminator IR Distance Up to 30 m 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 650 °C (-4 °F to 1202 °F) Temperature Accuracy Max (± 2 °C, ±2 %) Fire Detection Dynamic fire detection, up to 10 fire points detectable Smoking Detection Up to 10 smoking points detected	WDR	120 dB		
Picture in Picture Display partial image of thermal channel on the full screen of optical channel Yes. Supported in white hot and black hot mode. Thermal channel supports EIS, exclusive with all smart functions except smoke detection Illuminator IR Distance Up to 30 m 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 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 Smoking Detection Up to 10 smoking points detected	Image Effect			
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 IR Distance IR Distance 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 650 °C (-4 °F to 1202 °F) Temperature Accuracy Max (± 2 °C, ±2 %) Fire Detection Dynamic fire detection, up to 10 fire points detectable Smoking Detection Up to 10 smoking points detected	Bi-spectrum Image Fusion	Display the details of optical channel on thermal channel		
Thermal channel supports EIS, exclusive with all smart functions except smoke detection Illuminator	Picture in Picture	Display partial image of thermal channel on the full screen of optical channel		
Illuminator IR Distance Up to 30 m 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 650 °C (-4 °F to 1202 °F) Temperature Accuracy Max (± 2 °C, ±2 %) Fire Detection Dynamic fire detection, up to 10 fire points detectable Smoking Detection Up to 10 smoking points detected	Target Coloration	Yes. Supported in white hot and black hot mode.		
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IR Intensity and Angle Smart Function VCA 4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total. 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, 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 Smoking Detection Up to 10 smoking points detected	Illuminator			
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 650 °C (-4 °F to 1202 °F) Temperature Accuracy Max (± 2 °C, ±2 %) Fire Detection Dynamic fire detection, up to 10 fire points detectable Smoking Detection Up to 10 smoking points detected	IR Distance	Up to 30 m		
VCA 4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total. 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, 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 Smoking Detection Up to 10 smoking points detected	IR Intensity and Angle	Automatically adjusted		
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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 Smoking Detection Up to 10 smoking points detected	V 0/1	up to 8 VCA rules in total.		
Temperature Accuracy Max (± 2 °C, ±2 %) Fire Detection Dynamic fire detection, up to 10 fire points detectable Smoking Detection Up to 10 smoking points detected	Temperature Measurement			
Fire Detection Dynamic fire detection, up to 10 fire points detectable Smoking Detection Up to 10 smoking points detected	Temperature Range	-20 °C to 650 °C (-4 °F to 1202 °F)		
Smoking Detection Up to 10 smoking points detected	Temperature Accuracy	Max (± 2 °C, ±2 %)		
	Fire Detection	Dynamic fire detection, up to 10 fire points detectable		
Smoke Detection Support smoke detection on optical channel	Smoking Detection	Up to 10 smoking points detected		
	Smoke Detection	Support smoke detection on optical channel		



Video and Audio			
	Optical channel		
Main Stream	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		



General			
Menu 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	24 VAC ± 25%, 12 VDC ± 25%,24VDC two-core terminal block PoE (802.3af, class 3)		
Power Consumption	24 VAC ± 25%: 0.33 A to 0.55 A, max. 12.1W 12 VDC ± 25%: 0.8 A to 1.33 A, max. 11.3W 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/Humidity	Temperature: -40°C to 70°C (-40°F to 158°F) 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

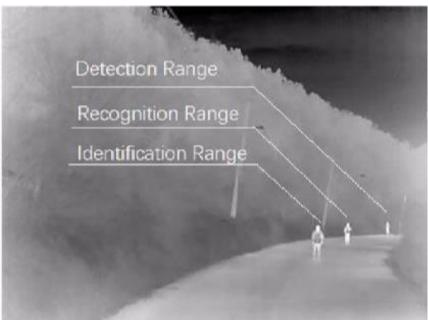
*The table is only for reference and the performance may vary according to different environment.

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: 0.2 × 0.2 m)	Smoke detection (Object: 0.5 × 0.5m)
120 m	52 m	13.2m	33m	52.8m	6.6m

DORI

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.

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
Top-level Frotection	areas where professional anti-corrosion protection is a

^{*}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.



1	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-TD2638T-4/G0/T1Y

- Accessory
- Included



Optional



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