

HM-TD1228T-3/QA Bi-spectrum Thermography Network Turret Camera



HIKMICRO HM-TD1228T-3/QA Bi-spectrum Thermography Network Turret Camera can be applied to warehouses, construction sites, waste incineration plants, manufacturing workshops, etc. The accurate temperature measurement device sends temperature exception alarms for loss prevention.

- 256 × 192 resolution, 12 μm, VOx UFPA, NETD < 40 mK (25°C, F1.0)
- Video content analysis: vehicle/human classification
- Temperature exception alarm for fire prevention, -20°C to 550°C (-4°F to 1,022°F), Max (± 2°C, ± 2%)
- Support smoke detection algorithm
- Image processing technology: linear, histogram, self-adaptive thermal AGC mode, DDE, 3D DNR
- High quality detector with 10 years guarantee
- Support smoking detection algorithm
- Support sun-reflection filter and forklift alarm filter algorithm

▪ Specification

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	256 x 192
Pixel Pitch	12 μm
NETD	$\leq 40 \text{ mK}$ (@25° C, F# = 1.0)
Focal Length	3.6 mm
IFOV	3.33 mrad
Aperture	F1.0
Field of View	50.0° × 37.3° (H × V)
Min. Focusing Distance	0.5 m
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
Field of View	84.0° × 43.1° (H × V)
Focal Length	4.3 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.
Illuminator	
IR Distance	Up to 15 m
IR Intensity and Angle	Automatically adjusted
Audible and Visual Alarm	
White Light Range	Up to 30 m
Visual Alarm	Yes. White light alarm with adjustable flashing frequencies
Audio alarm	Yes, for three types of audible alarm (VCA and Temperature Exception) 3 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 550°C (-4°F to 1022°F);
Temperature Accuracy	Max (±2°C, ±2 %)
General Function	Fire detection, smoke detection, smoking detection, sun-reflection filter, forklift alarm filter
Video and Audio	
Main Stream	Thermal: 25 fps (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
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 256 G) local storage, NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)
API	ISAPI, HIKVISION SDK, ISUP,, and third-party management platform, Open Network Video Interface, ONVIF (Profile S, Profile G)
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 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	
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	12 VDC \pm 25%, ϕ 5.5 mm coaxial power plug PoE (802.3af, class 3)
Power Consumption	12 VDC \pm 25%: 0.5 A, Max 6 W PoE (802.3af, class 3): 36V to 57 V, 0.22 A to 0.14 A, Max 6.5 W
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
Dimensions	138.3 mm \times 138.3 mm \times 123.1 mm (5.45" \times 5.45" \times 4.85")
Weight	940 g (2.07 lb)

▪ Range Table

VCA Range (Vehicles: 1.4 \times 4.0 m)	VCA Range (Humans: 1.8 \times 0.5 m)	Temperature Measurement (Object: 0.2 \times 0.2 m)	Temperature Measurement (Object: 1 \times 1 m)	Fire Detection (Object: 0.2 \times 0.2 m)	Smoke Detection (Object: 0.5 \times 0.5m)	Smoking Detection
75.6 m	28.4m	11.7 m	58.3 m	43.2m	12.9m	5.4m

▪ 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.

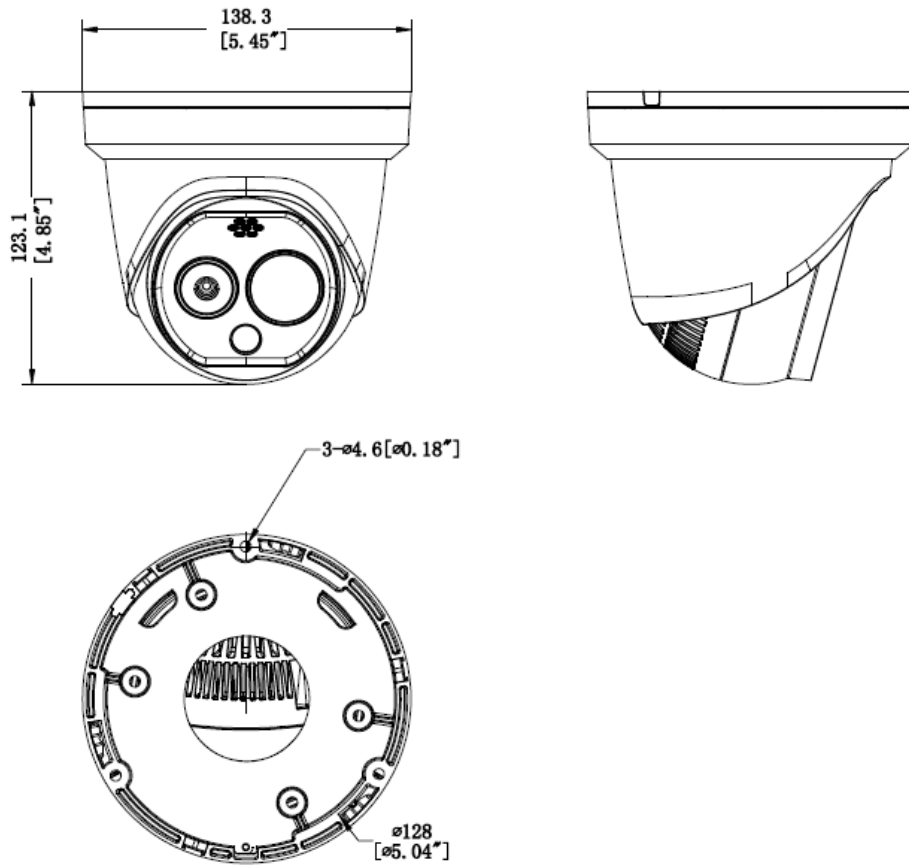
Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.

Detection Range (Vehicles: 1.4 \times 4.0 m)	Detection Range (Humans: 1.8 \times 0.5 m)	Recognition Range (Vehicles: 1.4 \times 4.0 m)	Recognition Range (Humans: 1.8 \times 0.5 m)	Identification Range (Vehicles: 1.4 \times 4.0 m)	Identification Range (Humans: 1.8 \times 0.5 m)
460 m	150 m	112 m	38 m	56 m	19 m

▪ Available Model








HM-TD1228T-3/QA

▪ Dimension



▪ Accessory

▪ Optional

DS-1273ZJ-140 Wall mount	DS-1273ZJ-140B Wall mount	DS-1271ZJ-140 Pendant Mount	DS-1275ZJ-SUS Vertical pole mount	DS-1276ZJ-SUS Corner mount
				
DS-1280ZJ-DM21 Junction box	DS-1273ZJ-140(BLACK) Wall mount			
				

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