

HM-TD1228-2/QA Thermal & Optical Bi-spectrum Network Turret Camera





HIKMICRO HM-TD1228-2/QA Thermal & Optical Bi-spectrum Network Turret Camera can be applied to villas, communities, parking lots, 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 150°C (-4°F to 302°F), ± 8°C (± 14.4°F)
- 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



Specification

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Thermal Module					
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays				
Resolution	256 × 192				
Pixel Pitch	12 μm				
Spectral Range	8 μm to 14 μm				
NETD	<40 mK (25°C, F1.1)				
Focal Length	2.1 mm				
IFOV	5.71 mrad				
Field of View	90.0° × 65.4° (H × V)				
Min. Focusing Distance	0.1 m				
Aperture	F1.0				
Digital Zoom	×2,×4				
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				
Shutter Speed	1 s to 1/100,000 s				
Focal Length	2.2 mm				
Field of View	117.8° × 70.4° (H × V)				
Aperture (Range)	F2.25				
WDR	120 dB				
Image Effect					
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				
	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),				
VCA	up to 8 VCA rules in total.				
Temperature Massurement	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas,				
Temperature Measurement	and 1 line)				
Temperature Range	-20°C to 150°C (-4°F to 302°F)				
Temperature Accuracy	±8°C (±14.4°F)				
General Function	Fire detection, smoking detection, sun-reflection filter				
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Video and Audio					
	Thermal:				
Main Stream	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)				
	Thermal:				
	25 fps (704 × 576, 640 × 512, 320 × 240)				
Sub-stream	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				
video compression	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),				
Trottrom otorago	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				
Cooding	encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering				
Client	iVMS-4200, Hik-Connect				
	Live view (plug-in allowed) : Internet Explorer 11				
Web Browser	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	1, 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: 600Ω				
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.				
33amadion interruot	1, RS-485 interface (half duplex)				



General			
	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German,		
	Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian,		
Web Client Language	Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish,		
	Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian,		
	Portuguese (Brazil)		
Power Supply	12 VDC ± 25%, φ 5.5 mm coaxial power plug		
	PoE (802.3af, class 3)		
Power Consumption	12 VDC ± 25%: 0.5 A, Max 6 W		
	PoE (802.3af, class 3): 36 V to 57 V, 0.22 A to 0.14 A, Max 6.5 W		
Working	Temperature: -40°C to 70°C (-40°F to 158°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 × 123.1 mm (5.45" × 5.45" × 4.85")		
Weight	940 g (2.07 lb)		

Range Table

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: 1 × 1 m)	Fire Detection (Object: 0.2 × 0.2 m)	Smoking Detection
50.4. m	16.8m	7 m	35 m	21.6m	3.15m

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- * 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.

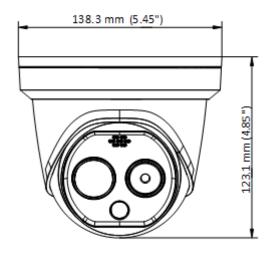
Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
268 m	88 m	67 m	22 m	34 m	11 m

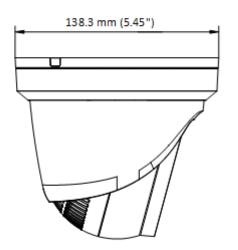
Available Model

HM-TD1228-2/QA



Dimension





Accessory

Optional

- Орионаі				
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
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DS-1280ZJ-DM21 Junction box	DS-1273ZJ- 140(BLACK) Wall mount			

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