

DS-2TD1217-3/QA Thermographic Network Turret Camera





Hikvision DS-2TD1217-3/QA Thermographic Network Turret 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.

Key Feature

- 160 × 120 resolution, 17 μm, VOx UFPA, NETD < 40 mK (25 °C, F# = 1.1)
- High accuracy temperature exception alarm, 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





hermal Module				
mage Sensor	Vanadium Oxide Uncooled Focal Plane Arrays			
Resolution	160 × 120			
Pixel Pitch	17 μm			
Spectral Range	8 μm to 14 μm			
NETD	< 40 mK (@ 25 °C, F# = 1.1)			
Focal Length	3.1 mm			
IFOV	5.48 mrad			
Field of View	50.0° × 37.2° (H × V)			
Min. Focusing Distance	0.2 m			
Aperture	F1.1			
Digital Zoom	× 2, × 4			
Optical Module				
Image Sensor	1/2.7" Progressive Scan CMOS			
Resolution	2688 × 1520			
Min. Illumination	Color: 0.0176 Lux @ (F2.25, AGC ON), B/W: 0.0035 Lux @ (F2.25, AGC ON)			
Shutter Speed	1 s to 1/100,000 s			
Focal Length	4 mm			
Field of View	84.0° × 44.8° (H × V)			
Aperture (Range)	F2.3			
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, Temperature)			
Audio alarm	2 preset voice alerts (one for each)			
	6 importable user-defined voice alerts (4 options shared in the two types)			
Smart Function				
	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8			
VCA	VCA rules in total.			
Tomporaturo Massuramant	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1			
Temperature Measurement	line)			
Temperature Range	- 20 °C to 150 °C (- 4 °F to 302 °F)			
Temperature Accuracy	± 8 °C (± 14.4 °F)			



Video and Audio				
	Thermal:			
	25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240)			
Main Stream	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, 352 × 288, 320 × 240)			
Sub-stream	Optical:			
	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			
Network				
	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,			
Protocols	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE			
	MicroSD/SDHC/SDXC card (up to 256 G) local storage, NAS (NFS, SMB/CIFS), Auto			
Network Storage	Network Replenishment (ANR)			
API	ISAPI, HIKVISION SDK, third-party management platform,			
Simultaneous Live View	Up to 20 channels			
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User			
	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE			
Security	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			
	1, 3.5 mm Mic in/Line in interface			
Audio Input	Line input: 2-2.4 V [p-p], output impedance: 1 K Ω ± 10%			
Audio Output	Linear level, impedance: 600Ω			
	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.			
Communication Interface	1, RS-485 interface (half duplex)			
General				
General	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,			
Web Client Language	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)			
	12 VDC \pm 25%, ϕ 5.5 mm coaxial power plug			
Power Supply	PoE (802.3af, class 3)			
	12 VDC ± 25%: 0.5 A, Max. 6 W			
Power Consumption	PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, Max. 6.5 W			
	r ol 1002.301, U033 31. 42.3 V 10 37 V, U.14 A 10 U.22 A, IVIdX. 0.3 VV			



Working Temperature/HumidityTemperature: - 40 °C to 65 °C (- 40 °F to 149 °F)Humidity: 95% or less	
Protection Level	IP66 Standard TVS 6000 V 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)



DRI Range Table

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

* The optimal 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 $ imes$	(Humans: 1.8 $ imes$	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	1.4 $ imes$ 4.0 m)	1.8 $ imes$ 0.5 m)	1.4 $ imes$ 4.0 m)	1.8 $ imes$ 0.5 m)
280 m	91m	70 m	23 m	35 m	11 m

Smart Function Table

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

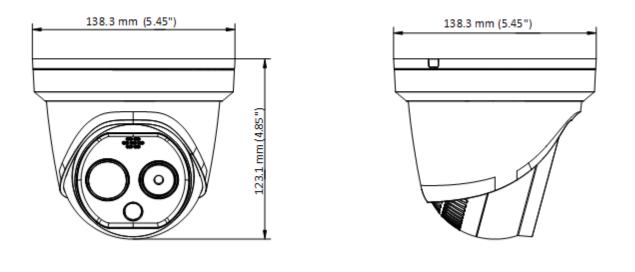
VCA Range (Vehicles: 1.4 ×	VCA Range (Humans: 1.8 ×	Temperature Measurement	Temperature Measurement
4.0 m)	0.5 m)	(Object: 2 × 2 m)	(Object: 1 × 1 m)
43 m	15 m	66 m	33 m

Available Model

DS-2TD1217-3/QA



Dimension



Unit: mm [Inch]

Accessory

Optional

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

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