

DS-2TD2628T-3/QA Bi-spectrum Thermography Network Bullet Camera







Hikvision DS-2TD2628T-3/QA Bi-spectrum Thermography Network Bullet 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.

Key Feature

- 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%)
- 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 256 × 192 Pixel PItch 12 µm Spectral Range 8 µm to 14 µm NETD < 40 mK (@25° C, F# = 1.0) Focal Length 3.6 mm IFOV 3.33 mrad Aperture F1.0 Filed 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. Illumnation 0.00891ux @ (F1.6, AGC ON), 0 Lux with IR Filed of View 84.0° × 43.1" (H × V) Focal Length 4.3 mm Shutter Speed 1 s to 31/100,000 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 WOR 120 dB Sepsed F1.6 Image Effect Image Effect Image Effect Image Effect Image Effect II Sepsed 1 s to 31/100,000 s IR Intensity and Angle Automatically adjusted Audible and Visual Alarm Ves. Supported in white hot and black hot mode. Illuminator IR Distance Up to 30 m IR Intensity and Angle Automatically adjusted Audible and Visual Alarm Ves. White light alarm with adjustable flashing frequencies Ves. for three types of audible alarm (VCA and Temperature Exception) A preservoice alerts (one for each) 6 importable user-defined voice alerts (of options shared in the two types) Smart Function Temperature Measurement If Emperature Range - 20° Cto S50° C (-4° F to 1022° F);	Thermal Module					
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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 30 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 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. 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line)	Day & Night Mode	IR Cut Filter with Auto Switch				
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 30 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 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)	WDR	120 dB				
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 30 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 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)	Aperture	F1.6				
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. Illuminator IR Distance Up to 30 m IR Intensity and Angle Automatically adjusted Audible and Visual Alarm White Light Range Up to 30 m Yes. White light alarm with adjustable flashing frequencies 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)	Image Effect					
Target Coloration Yes. Supported in white hot and black hot mode. Illuminator IR Distance Up to 30 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 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 VCA rules in total. Temperature Measurement 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line)	Bi-spectrum Image Fusion	Display the details of optical channel on thermal channel				
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Audible and Visual Alarm White Light Range Visual Alarm Ves. White light alarm with adjustable flashing frequencies 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. 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line)	Illuminator					
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White Light Range Visual Alarm Yes. White light alarm with adjustable flashing frequencies 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. 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line)	IR Intensity and Angle	Automatically adjusted				
Visual Alarm Yes. White light alarm with adjustable flashing frequencies 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)	Audible and Visual Alarm					
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VCA rules in total. 3 temperature Measurement line) VCA rules in total. 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line)	VCA	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8				
Temperature Measurement line)	VCA	VCA rules in total.				
line)	Tanananahuna Masaunananah	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1				
Temperature Range -20°C to 550°C (-4°F to 1022°F);	remperature ivieasurement	line)				
	Temperature Range	-20°C to 550°C (-4°F to 1022°F);				
Temperature Accuracy Max. (± 2°C, ± 2%)	Temperature Accuracy	Max. (± 2°C, ± 2%)				
Temperature Accuracy Max. (± 2°C, ± 2%)	· · · · · · · · · · · · · · · · · · ·	·				



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)			
	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,TP,Bonjour,SFTP,SRTP			
	MicroSD/SDHC/SDXC card (up to 256 GB) local storage, NAS (NFS, SMB/CIFS), Auto			
Network Storage	Network Replenishment (ANR)			
	ISAPI, HIKVISION SDK, and third-party management platform, Open Network Video			
API				
Simultaneous Live View	Interface (Profile S, Profile G)			
User/Host level	Up to 20 channels			
Osei/Host level	Up to 32 users, 3 levels: Administrator, Operator, User User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE			
Security				
Client	802.1x access control, IP address filtering			
	iVMS-4200, Hik-Connect			
Interface	2 -1			
Alarm Input	2, alarm input (0 to 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 to 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.			
	1, RS-485 interface (half duplex)			
Analog Output	1.0 V [p-p]/75 Ω, PAL/NTSC/BNC			
General				
	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,			
Menu 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)			
Power Supply	24 VAC ± 25%, 12 VDC ± 25%, two-core terminal block			
ri**/	PoE (802.3af, class 3)			
Power Consumption	24 VDC ± 25%: 0.8 A, Max. 8.5 W			
	12 VDC ± 25%: 0.7 A, Max. 8.5 W			
	PoE (802.3af, class 3): 36 V to 57 V, 0.24 A to 0.15 A, Max. 8.5 W			



Working Temperature/Humidity	Temperature: -40°C to 65°C (-40°F to 149°F) Humidity: 95% or less	
Protection Level	IP67 Standard TVS 4000V lightning protection, surge protection, voltage transient protection	
Dimensions 321.3 mm × 106.1 mm × 107.0 mm (12.65" × 4.18" × 4.21")		
Weight	1550 g (3.41 lb)	



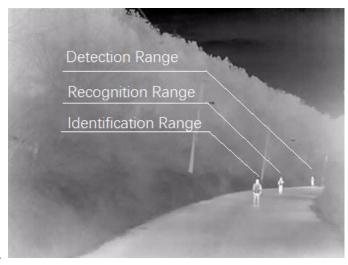
DRI Range Table

- * 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 ×	(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)
460 m	150 m	112 m	38 m	56 m	19 m

Smart Function Table

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

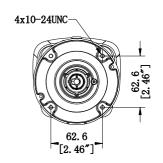
VCA Range (Vehicles: 1.4 ×	VCA Range (Humans: 1.8 ×	Temperature Measurement	Temperature Measurement
4.0 m)	0.5 m)	(Object: 0.2 × 0.2 m)	(Object: 1 × 1 m)
75.6 m	28.4 m	11.7 m	58.3 m

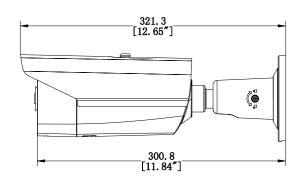
Available Model

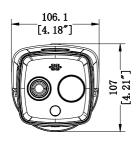
DS-2TD2628T-3/QA



Dimension







Unit: mm [Inch]

Accessory

Included



DS-1260ZJ Junction Box

Optional







DS-1275ZJ-S-SUS Vertical Pole Mount

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.



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