### DS-2TD2628-3/QA

## **Thermal & Optical Bi-spectrum Network Bullet Camera**





Hikvision Thermal & Optical Bi-spectrum Network Bullet Camera supports video analysis for perimeter protection, and also temperature exception alarm for early fire prevention. With the deep learning algorithm, it can realize high precision VCA detection and real-time alarm. These camera series can be widely applied to villas, communities, parking lots, warehouses, construction sites, waste incineration plants, manufacturing workshops, etc

#### Key Feature

- 256 × 192 resolution, 12 μm, VOx UFPA, NETD < 40 mK (25°C, F1.0)</li>
- 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

# Specification

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, F1.0)				
Focal Length	3.6 mm				
IFOV	3.33 mrad				
Field of View	50.0°(H) × 37.3°(V)				
Min. Focusing Distance	0.3 m				
Aperture	F1.0				
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	4.3 mm				
Field of View	84.0° (H) × 43.1° (V)				
Aperture (Range)	F1.6				
WDR	120 dB				
Image Effect	120 42				
Target Coloration	Yes. Supported in white hot and black hot mode.				
Illuminator	, co. cappe to a manufacture of the				
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 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					
	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8				
VCA	VCA rules in total.				
	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:			
Main Stream	25 fps (1280 × 720, 704 × 576, 640 × 512, 320 × 240)			
	Optical:			
	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)			
	60 Hz: 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 Communica	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,RTCP,R			
Protocols	TP,TCP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour,SFTP,SRTP			
	MicroSD/SDHC/SDXC card (up to 256 G) local storage, NAS (NFS, SMB/CIFS), Auto			
Network Storage	Network Replenishment (ANR)			
	ISAPI, HIKVISION SDK, and third-party management platform, Open Network Video			
API	Interface (Profile S, Profile G)			
Simultaneous Live View	Up to 20 channels			
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User			
	User authentication (ID and Password), 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	2, alarm input (0 to 5 VDC)			
Alarm Output	2, alarm output (alarm response actions configurable)			
	Linkage Method Trigger recording: memory card, network storage, pre-record and			
Alarm Action	post-record Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email Trigger			
	notification: HTTP, ISAPI, alarm output, Email			
Audia Innut	1, 3.5 mm Mic in/Line in interface			
Audio Input	Line input: 2 to 2.4 V [p-p], output impedance: 1 K $\Omega$ ± 10%			
Audio Output	Linear level, impedance: $600 \Omega$			
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.			
Communication Interface	1, RS-485 interface (half duplex)			
Analog Output	1.0V [p-p]/75Ω, PAL/NTSC/BNC			
General				
	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,			
Woh Client Language	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,			
Web Client Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,			
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)			

Power Supply PoE (802.3af, class 3)			
Power Consumption 12 VDC ± 25%: 0.5 A, Max. 6 W PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, Max. 6.5 W			
Working Temperature/Humidity	Temperature: -40°C to 65°C (-40°F to 149°F) Humidity: 95% or less		
Protection Level	IP67 Standard TVS 6000V lightning protection, surge protection, voltage transient protection		
Dimensions	ensions 321.3 mm × 106.1 mm × 107.0 mm (12.65" × 4.18" × 4.21")		
Weight	1550 g (3.41 lb)		

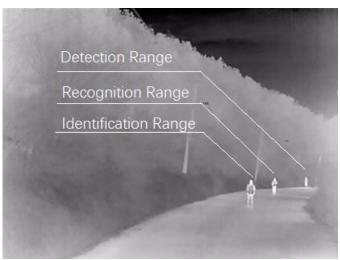
# **DRI Range Table**

- \* 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.



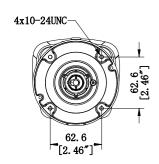
Detection Range (Humans: 1.8 ×	Detection Range (Vehicles: 1.4 ×	Recognition Range (Humans:	Recognition Range (Vehicles:	Identification Range (Humans:	Identification Range (Vehicles:
0.5 m)	4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)
150 m	460 m	38 m	112 m	19 m	56 m

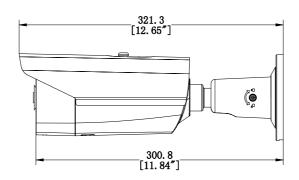
#### **Smart Function Table**

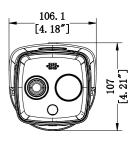
\* The table is only for reference and the performance may vary according to different environment.

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

## Dimension







Unit: mm [Inch]

#### Accessory

#### Included



Junction Box

#### Optional



**Corner Mount** 



Vertical Pole Mount

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