

### DS-2TD8167-230ZG2F/WY

**Anti-corrosion Thermal & Optical Bi-spectrum Network Stable PTZ** 





Hikvision DS-2TD8167-230ZG2F/WY Anti-corrosion Thermal & Optical Bi-spectrum Network Stable PTZ is applied to boarder surveillance and fire-prevention purposes in scenes such as: port, dock, island, aquafarm. The coating technology can meet the use requirements in anti-corrosion environment.

#### **Key Feature**

- Behavior analysis function, based on deep learning algorithm: line crossing, intrusion, region entrance and exit
- Temperature exception alarm for fire prevention
- Fire detection algorithm, Smoke detection algorithm
- 640 × 512 (the resolution of output image is 1920 × 1080) resolution 17 μm, VOx UFPA, NETD ≤ 35 mK (25°C, F# = 1.0)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR
- NEMA-4X Standard
- High quality detector with 10 years guarantee
- Smart tracking: Panorama tracking, Event tracking and Multi-scene patrol tracking
- Smart tracking linkage: thermal view and optical view
- Thermal channel supports EIS, conflicted with intelligent function





# Specification

Thermal Module				
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays			
Resolution	$640 \times 512$ (the resolution of output image is $1920 \times 1080$ )			
Pixel Interval	17 μm			
Response Waveband	8 μm to 14 μm			
NETD	≤ 35 mK (@25°C,F# = 1.0)			
Focal Length	23 to 230 mm			
Focus Mode	Semi-auto & Manual			
IFOV	0.74 to 0.07 mrad			
Aperture	F0.9 to F1.5			
Field of View	26.61° × 21.43° (H × V) to 2.83° × 2.27° (H × V)			
Min. Focusing Distance	2m			
Digital Zoom	×2, ×4, ×8			
Optical Module				
Image Sensor	1/1.8" Progressive Scan CMOS			
Resolution	1920 × 1080, 2 MP			
Min. Illumination	Color: 0.005 Lux @ (F3.5, AGC ON), B/W: 0.0005 Lux @ (F3.5, AGC ON)			
Field of View	24.33° × 13.83° (H × V) to 0.41°× 0.23° (H × V)			
Focal Length	16.7-1000 mm, 60x			
Aperture (Range)	F3.5 to F8.8			
Focus Mode	Semi-auto/Manual			
Digital Zoom	×2, ×4, ×8, ×16			
Shutter Speed	1s to 1/30,000s			
WDR	120 dB			
Optical Defog	Yes			
Image Effect				
Picture in Picture	Display partial image of thermal channel on the full screen of optical channel			
Target Coloration	Supported in white hot and black hot mode			
PTZ				
Movement Range	Pan: 360° Continuous Rotate; Tilt: From -45° to + 45° (auto flip)			
Pan Speed	Configurable, From 0.01°/s to 40°/s, Preset Speed: 240°/s			
Tilt Speed	Configurable, From 0.01°/s to 20°/s, Preset Speed: 200°/s			
Proportional Zoom	Yes			
Presets	300 in total, 273 are configurable.			
Patrol Scan	8; Up to 32 Presets Per Patrol			
Pattern Scan	4; More Than 10 Minutes Per Pattern			
Power Off Memory	Yes			
Park	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame			
rain	Scan/Panorama Scan			
PT Status	Turn On/Turn Off			
Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame			
JUICUUICU TASK	Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output			



Smart Function	t Function			
1404	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region			
/CA	Exiting), up to 10 scenes and 8 VCA rules for each scene			
	Support 3 temperature measurement rule types, 273 presets as scene, 21 rules of each			
Temperature Measurement	scene (10 points, 10 areas, and 1 line)			
Temperature Range	-20°C to 150°C (-4°F to 302°F)			
Temperature Accuracy	± 8°C (± 14.4°F)			
Fire Detection	Dynamic fire point detection, up to 10 fire points detectable.			
Video and Audio				
	Optical channel			
	50 Hz:25 fps (1920 × 1080, 1280 × 960, 1280 × 720)			
Main Stream	60 Hz:30 fps (1920 × 1080, 1280 × 960, 1280 × 720)			
Thain stream	Thermal channel			
	50 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 512, 384 × 288)			
	Optical channel			
	50 Hz:25 fps (704 × 576, 352 × 288)			
Sub-stream	60 Hz: 30 fps (704 × 576, 352 × 288)			
	Thermal channel			
	50 fps (704 × 576, 640 × 512, 384 × 288)			
	Main stream: H.265+/H.265/H.264+/ H.264			
Video Compression	Sub-stream: H.265/H.264/MJPEG			
Audio Compression	G .711u/G.711a/G.722.1/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			
Network Storage	MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto			
	network replenishment (ANR)			
API	ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profile G,			
	Profile T)			
Simultaneous Live View	Up to 20 channels			
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User			
<b>.</b>	User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE			
Security	802.1x 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	7-ch inputs (0 to 5 VDC)			
Alarm Output	2-ch relay outputs, alarm response actions configurable			
Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/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 $\Omega$ ± 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		
Analog Video Output	1.0 V [p-p]/75 $\Omega$ , BNC for thermal channel		
General			
	32 languages		
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,		
Web Client Language	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	48 VDC ± 20%, two-core terminal block		
Power Consumption	48 VDC, 5 A, max. 220 W		
Work Temperature/Humidity	From -40°C to 65°C (-40°F to 149°F); Humidity: 95% or Less		
Wiper	Yes		
Donto stino I avail	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient		
Protection Level	Protection		
Dimension	649.2 mm × 438 mm × 668.3 mm (25.6" × 17.2" × 26.3")		
Weight Approx. 60 kg (132.3 lb)			



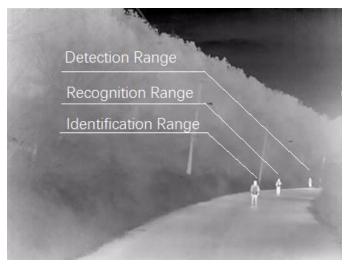
## **DRI Range Table**

- \* 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)
17137 m	5588 m	4284 m	1397 m	2142 m	699 m

#### **Smart Function Table**

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

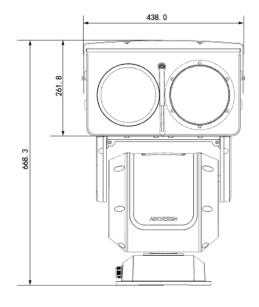
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
4830 m	1610 m	4446 m	2242 m	11172 m	5586 m

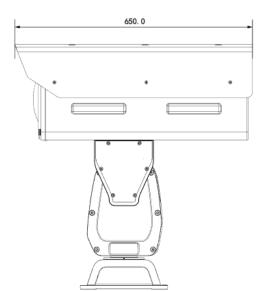
### **Available Model**

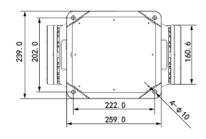
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## **Dimension**







Unit: mm

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