

DS-2TD8167-230ZG2F/W

Thermal & Optical Bi-spectrum Network Stable PTZ





Hikvision DS-2TD8167-230ZG2F/W Thermal & Optical Bi-spectrum Network Stable PTZ equipped with built-in GPU which supports intelligent perimeter protection algorithm, can realize high-precision VCA detection and real-time alarm. It is applied to perimeter protection scenes, such as airport, railway, farm, large parking lot. The pre-alarm system helps you discover unexpected events immediately and protects your property.

Key Feature

- Perimeter protection function, based on intelligent 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
- 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 × 512 (the resolution of output image is 1920 × 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	2 m			
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 to 1000 mm, 60x			
Aperture (Range)	F3.5 to F8.8			
Focus Mode	Semi-auto/Manual			
Shutter Speed	1s to 1/30,000 s			
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			
raik	Scan/Panorama Scan			
PT Status	Turn On/Turn Off			
Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame			
Scrieduica rask	Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output			
Smart Function				
VCA	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region			
. 5	Exiting), up to 10 scenes and 8 VCA rules for each scene			



Temperature Measurement	Support 3 temperature measurement rule types, 273 presets as scene, 21 rules of each
	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)
	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	
	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, and NAS (NFS, SMB/CIFS), auto
Network Storage	network replenishment (ANR)
	ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profile G,
API	Profile T)
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 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 +
WCD DIOWSCI	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
7 darin Odepat	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP
Alarm Action	upload/Email linkage
	1, 3.5 mm Mic in/Line in interface. Line input: 2 to 2.4 V [p-p], output impedance: 1 KG
Audio Input	± 10%
Audia Output	
Audio Output	Linear Level; Impedance: 600 Ω
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface
Analog Video Output	1.0 V [p-p]/75 Ω , BNC for thermal channel
Analog video Output	T.O V [p-p]/ / 2 tz, BIVC IOI theillidi Challiel



General			
Web Client Language	32 languages		
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, 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	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		
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient		
	Protection		
Dimension	649.2 mm × 438 mm × 668.3 mm (25.6" × 17.2" × 26.3")		
Weight	Approx. 60 kg (132.3 lb)		



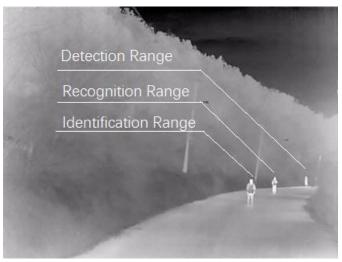
DRI Range Table

- * 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	

Smart Function Table

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

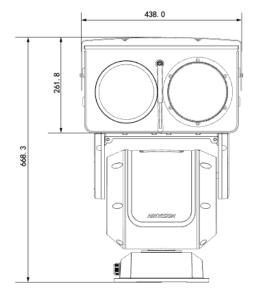
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)	
3912 m	1397 m	4446 m	2242 m	11172 m	5586 m	

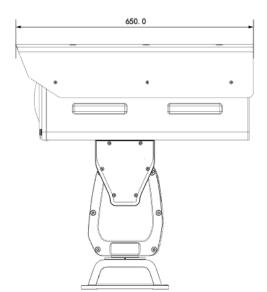
Available Model

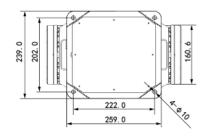
DS-2TD8167-230ZG2F/W



Dimension







Unit: mm

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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