

DS-2TD8167-150ZC4F/W

Thermal & Optical Bi-spectrum Network Stable PTZ





Hikvision DS-2TD8167-150ZC4F/W Thermal & Optical Bi-spectrum Network Stable PTZ equipped with built-in GPU which supports intelligent behavior analysis algorithm, can realize high-precision VCA detection and real-time alarm. It is applied to boarder surveillance, airport, railway, farm, large parking lot and other critical infrastructures. The pre-alarm system helps you discover unexpected events immediately and protects your property.

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
- 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

- 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	Less than 35 mK (@25°C, F# = 1.0)			
Focal Length	30 to 150 mm			
Focus Mode	Semi-auto & Manual			
IFOV	0.57 to 0.11 mrad			
Aperture	F0.8 to F1.2			
Field of View	20.56° × 16.51° (H × V) to 4.15° × 3.32° (H × V)			
Min. Focusing Distance	3 m			
Digital Zoom	× 2, × 4, × 8			
Optical Module				
Image Sensor	1/1.8" Progressive Scan CMOS			
Resolution	2688 × 1520, 4 MP			
Min. Illumination	Color: 0.0005 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux @ (F1.5, AGC ON)			
Field of View	60° × 35.8° (H × V) to 1.2° × 0.7° (H × V)			
Focal Length	6.7 to 330 mm, 49x			
Aperture (Range)	F1.5 to F5.3			
Focus Mode	Semi-auto/Manual			
Shutter Speed	1s to 1/30,000s			
WDR	120 dB			
Digital Zoom	× 2, × 4, × 8, × 16			
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			
.	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame			
Park	Scan/Panorama Scan			
PT Status	Turn On/Turn Off			
Calcadulad Taal:	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame			
Scheduled Task	Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output			



Smart Function			
1/04	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 (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)		
Main Stream	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)		
	Thermal channel		
	50 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 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 × 480, 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 GB) local storage, and NAS (NFS, SMB/CIFS), auto		
	network replenishment (ANR)		
ADI	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		
Cit-	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		
Alarma Antico	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP		
Alarm Action	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: $600~\Omega$		



Camana unication Intentace	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 Ω , 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			
Protection Level	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. 60kg (132.3 lb)			



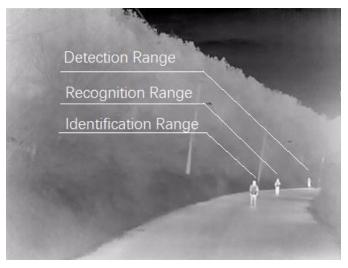
DRI Range Table

- * 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 (Vehicles: 1.4 ×	Detection Range (Humans: 1.8 ×	Recognition Range (Vehicles:	Recognition Range (Humans:	Identification Range (Vehicles:	Identification 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)
13529 m	4412 m	3382 m	1103 m	1691 m	551 m

Smart Function Table

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

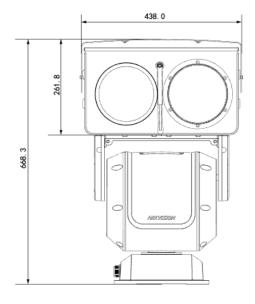
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
3150 m	1050 m	3529 m	1765 m	8824 m	4412 m

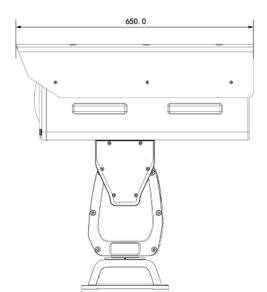
Available Model

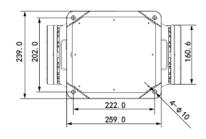
DS-2TD8167-150ZC4F/W



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.





HIKVISION°

Headquarters

No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 overseasbusiness@hikvision.com

Hikvision USA T+1-909-895-0400 sales.usa@hikvision.com

Hikvision Australia T+61-2-8599-4233 salesau@hikvision.com

Hikvision India T+91-22-28469900 sales@pramahikvision.com

Hikvision Canada T+1-866-200-6690 sales.canada@hikvision.com

Hikvision Thailand T +662-275-9949 sales.thailand@hikvision.com Hikvision Europe T +31-23-5542770 sales.eu@hikvision.com

Hikvision Italy T +39-0438-6902 info.it@hikvision.com

Hikvision Brazil T +55 11 3318-0050 Latam.support@hikvision.com

Hikvision Turkey T +90 (216)521 7070- 7074 sales.tr@hikvision.com

Hikvision Malaysia T+601-7652-2413 sales.my@hikvision.com Hikvision UK & Ireland T +01628-902140 sales.uk@hikvision.com

Hikvision South Africa Tel: +27 (10) 0351172 sale.africa@hikvision.com

Hikvision France T +33[0]1-85-330-450 info.fr@hikvision.com

Hikvision Kazakhstan T+7-727-9730667 nikia.panfilov@hikvision.ru

Hikvision Vietnam T +84-974270888 sales.vt@hikvision.com Hikvision UAE T +971-4-4432090 salesme@hikvision.com

Hikvision Singapore T +65-6684-4718 sg@hikvision.com

Hikvision Spain T +34-91-737-16-55 info.es@hikvision.com

Hikvision Tashkent T +99-87-1238-9438 uzb@hikvision.ru

Hikvision Hong Kong T +852-2151-1761 info.hk@hikvision.com Hikvision Russia T +7-495-669-67-99 saleru@hikvision.com

Hikvision Korea T +82-[0]31-731-8817 sales.korea@hikvision.com

Hikvision Poland T +48-22-460-01-50 info.pl@hikvision.com

Hikvision Indonesia T+62-21-2933759 Sales.Indonesia@hikvision.com

Hikvision Colombia sales.colombia@hikvision.com