

DS-2TD8167-190ZE2F/WY

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





Hikvision DS-2TD8167-190ZE2F/WY 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, and 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 μ m, VOx UFPA, NETD \leq 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 × 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	36 to 190 mm				
Focus Mode	Semi-auto & Manual				
IFOV	0.47 to 0.09 mrad				
Aperture	F0.8 to F1.2				
Field of View	17.19° × 13.79° (H × V) to 3.46° × 2.77° (H × V)				
Min. Focusing Distance	3 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	32.13° × 18.4° (H × V) to 0.53° × 0.3° (H × V)				
Focal Length	12.5 to 775 mm, 62x				
Aperture (Range)	F3.5 to F8.2				
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				
Park	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame				
	Scan/Panorama Scan				
PT Status	Turn On/Turn Off				
Scheduled Task	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					
VCA	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region				



	Exiting), up to 10 scenes and 8 VCA rules for each scene				
Tomporature Massurant	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				
Main Stream	50 Hz:25 fps (1920 × 1080, 1280 × 960, 1280 × 720)				
	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)				
Video Compression	Main stream: H.265+/H.265/H.264+/ H.264				
•	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)				
API	ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profile G,				
Circultura Livra Villano	Profile T)				
Simultaneous Live View	Up to 20 channels				
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User				
Security	User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE				
Client	802.1x access control, IP address filtering				
Client	iVMS-4200, Hik-Connect				
Web Browser	Live view (plug-in allowed): Internet Explorer 11 Live view (plug-in free): Chrome 57.0+, Firefox 52.0+				
Web Blowsel	Local service: Chrome 57.0+, Firefox 52.0+				
Interface	Local Service. Ciliottie 37.0+, Filelox 32.0 +				
Alarm Input	7-ch inputs (0 to 5 VDC)				
·	2-ch relay outputs, alarm response actions configurable				
Alarm Output 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 KΩ				
	± 10%				
Audio Output	Linear Level; Impedance: 600Ω				
Tualo output	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				
Time of the company					



General	
	32 languages
Web Client Language	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. 60kg (132.3 lb)



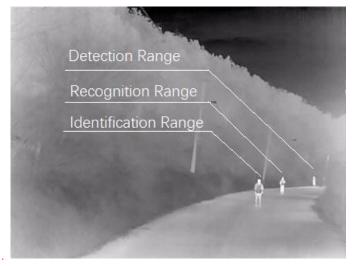
DRI Range Table

- * 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)
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.

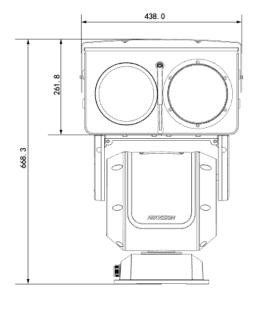
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
3990 m	1330 m	4471 m	2235 m	11176 m	5588 m

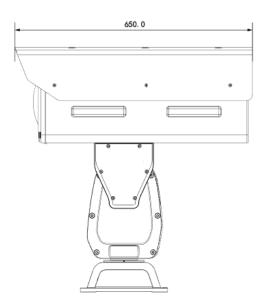
Available Model

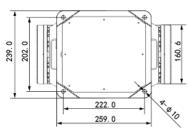
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Dimension







Unit: mm

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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