

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 behavior analysis algorithm, can realize high-precision VCA detection and real-time alarm. It is applied to frontier defense 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

- 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



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	
Davis	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame	
Park	Scan/Panorama Scan	
PT Status	Turn On/Turn Off	
Schodulod Took	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame	
Scheduled Task	Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output	



	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
remperature 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)
	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 GB) local storage, and NAS (NFS, SMB/CIFS), auto
twork 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
Cilent	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	
	7 ch inputs (0 to Γ)(DC)
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
	± 10%
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

Y



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)

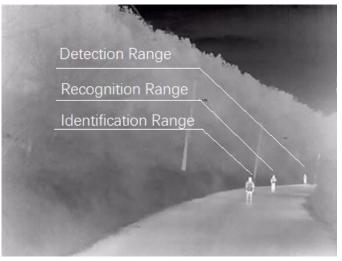


DRI Range Table

* 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	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.

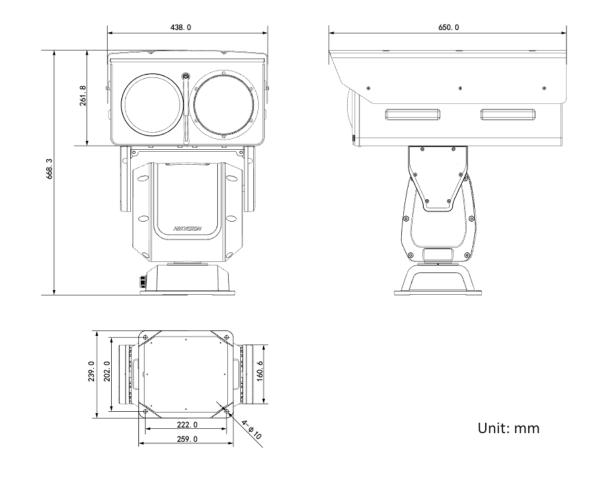
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
3990 m	1330 m	4471 m	2235 m	11176 m	5588 m

Available Model

DS-2TD8167-190ZE2F/WY



Dimension



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