

DS-2TD8167-150ZE2F/W

Thermal & Optical Bi-spectrum Network Stable PTZ

















Hikvision DS-2TD8167-150ZE2F/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 frontier defense 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

- Behavior analysis function, based on deep learning algorithm: line crossing, intrusion, region entrance & exit
- Temperature exception alarm for fire prevention
- Fire detection algorithm
- 640×512 resolution 17 µm, VOx UFPA, NETD \leq 35 mK (25 °C, F# = 1.1)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR





Specification

Thermal Module					
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays				
Resolution	640 × 512				
Pixel Interval	17 μm				
Response Waveband	8 μm to 14 μm				
NETD (Noise Equivalent	≤ 35 mK (25 °C, F# = 1.1)				
Temperature Difference)	2.33 HIR (23 C, 1# - 1.1)				
Focal Length	30 to 150 mm				
IFOV	0.57 to 0.11 mrad				
Field of View	20.56° × 16.51° (H × V) to 4.15° × 3.32° (H × V)				
Min. Focusing Distance	0.1 m				
Aperture	F0.8 to F1.2				
Focus Mode	Semi-auto, manual				
Digital Zoom	×2, ×4, ×8				
Optical Module					
Image Sensor	1/1.8" Progressive Scan CMOS				
Resolution 1920 × 1080					
Min. Illumination	Color: 0.005 Lux @ (F3.5, AGC ON), B/W: 0.0005 Lux @ (F3.5, AGC ON)				
Shutter Speed	1s to 1/30,000s				
Focal Length	12.5 to 775 mm				
Field of View 32.13° × 18.4° (H × V) to 0.53° × 0.3° (H × V)					
Aperture Range	F3.5				
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	Yes. 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				
Tilt Speed	Configurable, From 0.01°/s to 20°/s				
Proportional Zoom	Yes				
Presets					
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				



Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux Output Smart Function VCA (Video Content Analysis) 4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), 10 scenes and 8 VCA rules for each scene. 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 2 8 °C (14.4 °F) Fire Detection Dynamic fire detection, up to 10 fire points detectable. Video & Audio Video & Audio Optical channel 50 Hz; 25 fps (1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz; 30 fps (1920 × 1080, 1280 × 960, 1280 × 720) Thermal channel 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 384 × 288) Optical channel 50 Hz; 25 fps (704 × 576, 352 × 288) 60 Hz; 30 fps (794 × 576, 352 × 288) Thermal channel 25 fps (704 × 576, 640 × 480, 384 × 288) Video Compression Amin stream: Hz, 265+Hz, 265+Hz, 264+Hz, 264 Sub-stream: Hz, 265+Hz, 265+Hz, 264+Hz, 264 Sub-stream: Hz, 265+Hz, 265+Hz, 264+Hz, 264 Sub-stream: Hz, 265+Hz, 265+Hz, 264+Hz, 264 Audio Compression G, 711u/G, 711a/G, 722z, 1/MP2Lz/G, 726/PCM Network Protocols IPv4/IPv6, HTTP, HTTPS, 802,1x, Qos, FTP, SMTP, UPPP, SMMP, 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), autonetwork replenishment (ANR) API Simultaneous Live View Up to 32 users, 3 levels: administrator, operator, user Security User Journal of the detection (10 and PVW), MAC address binding, HTTPS encryption, IEEE 802,1K(EAP-MDS, EAP-TLS), access control, IP address filtering Live View (plug-in free): Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scheduled Task				
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Main stream: 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, PPP0E 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 Security User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering Client IVMS-4200, Hik-Connect Live view (plug-in allowed): Internet Explorer 11 Live view (plug-in free): Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+		Thermal channel			
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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 Security User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering Client iVMS-4200, Hik-Connect Live view (plug-in allowed): Internet Explorer 11 Live view (plug-in free): Chrome 57.0+, Firefox 52.0 + Local service: Chrome 57.0+, Firefox 52.0 + Local service: Chrome 57.0+, Firefox 52.0 +	Video Compression	Main stream: H.265+/H.265/H.264+/ H.264			
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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 Security User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering Client iVMS-4200, Hik-Connect Live view (plug-in allowed): Internet Explorer 11 Live view (plug-in free): Chrome 57.0 +, Firefox 52.0 + Local service: Chrome 57.0+, Firefox 52.0 + Local service: Chrome 57.0+, Firefox 52.0 +	Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM			
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Simultaneous Live View Up to 20 channels User/Host Level Up to 32 users. 3 levels: administrator, operator, user Security User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering Client iVMS-4200, Hik-Connect Live view (plug-in allowed): Internet Explorer 11 Live view (plug-in free): Chrome 57.0 +, Firefox 52.0 + Local service: Chrome 57.0+, Firefox 52.0 + Local service: Chrome 57.0+, Firefox 52.0 +	API	ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profile G,			
User/Host Level Up to 32 users. 3 levels: administrator, operator, user User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering Client iVMS-4200, Hik-Connect Live view (plug-in allowed): Internet Explorer 11 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 (0-5 VDC)	,	Profile T)			
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Security 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering Client iVMS-4200, Hik-Connect Live view (plug-in allowed): Internet Explorer 11 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 (0-5 VDC)	User/Host Level	Up to 32 users. 3 levels: administrator, operator, user			
802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering iVMS-4200, Hik-Connect Live view (plug-in allowed): Internet Explorer 11 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 (0-5 VDC)	Security	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE			
Live view (plug-in allowed): Internet Explorer 11 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 (0-5 VDC)		802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering			
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 (0-5 VDC)	Client	iVMS-4200, Hik-Connect			
Local service : Chrome 57.0+, Firefox 52.0 + Interface Alarm Input 7-ch inputs (0-5 VDC)					
Interface Alarm Input 7-ch inputs (0-5 VDC)	Web Browser				
Alarm Input 7-ch inputs (0-5 VDC)		Local service : Chrome 57.0+, Firefox 52.0 +			
	Interface				
Alarm Output 2-ch relay outputs, alarm response actions configurable	Alarm Input	7-ch inputs (0-5 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
Alaim Action	upload/email linkage
Audia Innut	1, 3.5 mm Mic in/Line in interface.
Audio Input	Line input: 2-2.4 V [p-p], output impedance: 1 K Ω ± 10%
Audio Output	Linear level, impedance: $600~\Omega$
Communication Interface	1, RJ45 10M/100M 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,
Menu 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	48 VDC ± 20%, two-core terminal block
Power Consumption	48 VDC, 5 A, max. 220 W
Marking Town orature / Lumidity	-40 °C to 65 °C (-40 °F to 149 °F)
Working Temperature/Humidity	95% or less
Wiper	Yes
Protection Level	IP66 Standard
FIOLECTION LEVEL	TVS 6000V lightning protection, surge protection, 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)



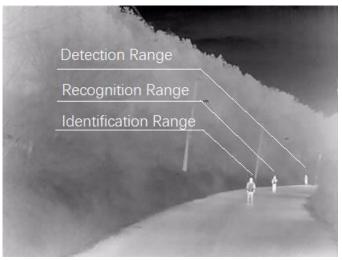
DRI Range Table

- * 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)
13529 m	4412 m	3382 m	1103 m	1691 m	

Smart Function Table

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

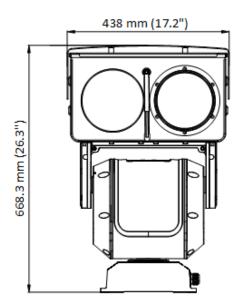
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
3088 m	1103 m	3510 m	1770 m	8820 m	4410 m

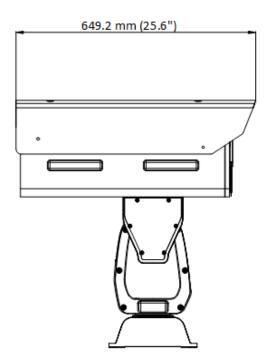
Available Model

DS-2TD8167-150ZE2F/W



Dimension





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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