

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 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					
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Image Sensor	VOx Uncooled Focal Plane Arrays				
Resolution	640×512 (the resolution of output image is 1920×1080)				
Pixel Pitch	17 μm				
Spectral Range	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	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				
	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame				
Park	Scan/Panorama Scan				
PT Status	Turn On/Turn Off				
	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
Val	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 incasurement	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)
Video Compression	Main stream: H.265+/H.265/H.264+/ H.264
Trace 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)
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 Password), MAC address binding, HTTPS encryption, IEEE
	802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering
Client	iVMS-4200, Hik-Connect
Veb Browser	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 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 Ω \pm 10%
Audio Output	Linear Level; Impedance: 600Ω



Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.
ommunication interface	1, RS-485 interface
Analog Output	$1.0 \text{ V [p-p]/75 }\Omega$, 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 Supply	48 VDC ± 20%, two-core terminal block
Power Consumption	48 VDC, 5 A, Max. 220 W
Working Temperature/Humidity	From -40°C to 65°C (-40°F to 149°F); Humidity: 95% or Less
Wiper	Yes
Duete etien Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient
Protection Level	Protection
Dimensions	649.2 mm × 438 mm × 668.3 mm (25.6" × 17.2" × 26.3")
Weight	Approx. 60kg (132.3 lb)



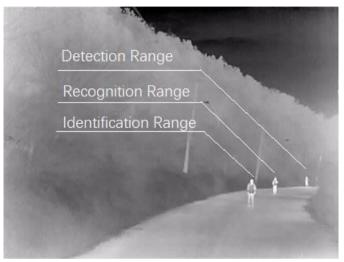
DRI Range Table

- * 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)
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.

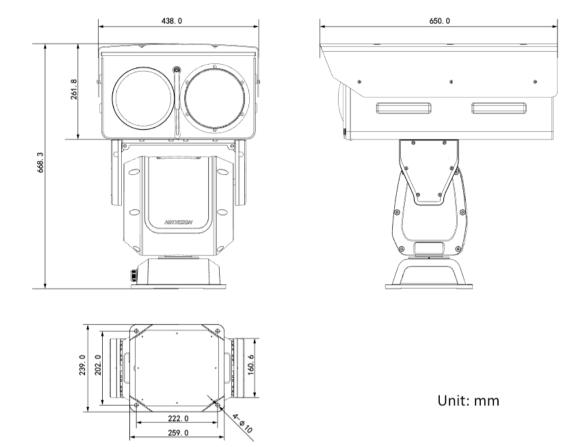
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
3150 m	1050 m	3529 m	1765 m	8824 m	4412 m

Available Model

DS-2TD8167-150ZE2F/W



Dimension



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