

DS-2TD95C8-150ZE4FL/W

Thermal & Optical Bi-spectrum Network Sphere Positioning System





Hikvision DS-2TD95C8-150ZE4FL/W Thermal & Optical Bi-spectrum Network Sphere Positioning System equipped with built-in GPU which supports intelligent perimeter protection algorithm with vehicle/human classification, can realize high-precision VCA detection and real-time alarm. It is applied to perimeter protection scenes, also airport, railway, port, large parking lot and other scenarios. The pre-alarm system helps you discover unexpected events immediately and protects your property.

Key Features

- Perimeter protection function, based on intelligent algorithm: line crossing, intrusion, region entrance and exit
- Temperature exception alarm for fire prevention
- Fire detection algorithm
- 1280×1024 resolution 12 μ m, 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 wiper, automatically turns on when it rains
- NEMA-4X Standard, Anti-corrosion coating



Specification

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Thermal Module						
Image Sensor	VOx Uncooled Focal Plane Arrays					
Resolution	1280×1024 (the resolution of output image is 1920×1080)					
Pixel Pitch	12 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	0.40 to 0.08 mrad					
Aperture	F0.85 to F1.2					
Field of View	28.7° × 23.2° (H × V) to 5.9° × 4.7° (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: 0.005 Lux @ (F3.5, AGC ON), B/W: 0.0005 Lux @ (F3.5, AGC ON)					
Field of View	31.2° × 17.8° (H × V) to 0.5° × 0.3° (H × V)					
Focal Length	10 to 800 mm, 80x					
Aperture (Range)	F3.0 to F11.5					
Focus Mode	Semi-auto & Manual					
Digital Zoom	×2, ×4, ×8, ×16					
Shutter Speed	1 s to 1/30,000 s					
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	Supported in white hot and black hot mode					
	Thermal channel: Built-in gyroscope to improve EIS performance(conflicted with					
Image Stabilization	intelligent function); Optical channel: Optical Image Stabilization (OIS)					
PTZ						
Movement Range	Pan: 360° Continuous Rotate; Tilt: From -45° to + 45° (auto flip)					
Pan Speed	Configurable, From 0.01°/s to 120°/s, Preset Speed: 120°/s					
Tilt Speed	Configurable, From 0.01°/s to 80°/s, Preset Speed: 80°/s					
Proportional Zoom	Yes					
Presets	300 in total, 273 are configurable.					
Patrol Scan	8; Up to 256 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 Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output
Illuminator	Scan/Panorama Scan/Doom Reboot/Doom Adjust/Adx Output
IR Distance	Lacor 2 000 m
	Laser 3,000 m
IR Intensity and Angle	Automatically adjusted
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
Temperature Measurement	Support 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	± 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)
M : C:	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)
Main Stream	Thermal channel
	25 fps (1920 × 1080, 1280 × 1024, 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
	25 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/AAC
Network	3 17 2 2 3 7 3 17 2 2 3 7 2 3 1 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1
Treemon N	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
Network Storage	network replenishment (ANR)
API	ISAPI, HIKVISION SDK, Open Network Video Interface (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
,	User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE
Security	802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering
Client	iVMS-4200, Hik-Connect, Hik-Central
	Live view (plug-in allowed): Internet Explorer 11
Web Browser	Live view (plug-in free): Chrome 57.0 +, Firefox 52.0 +
TO DIONICI	Local service : Chrome 57.0 +, Firefox 52.0 +
Interface	Local Service : Cili Offic 37.0 1, Fill Clox 32.0 1
	2 ch inputs (0 to 5 VDC)
Alarm Output	2-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 ± 10%	
Audio Output	Linear Level; Impedance: 600Ω	
Communication Interface	1, RJ45 10 M/100 M/1000 M Self-adaptive Ethernet interface. 1, RS-485 interface	
Analog Output	1.0 V [p-p]/75 Ω , BNC for thermal channel	
General		
Menu Language	32 languages 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%	
Power Consumption	180 W; Max. 460 W with deicing heating	
Working Temperature/Humidity	From -40°C to 70°C (-40°F to 158°F); Humidity: 90% ± 3% (no condensation)	
Wiper	Manual & Scheduled & Smart Wiper	
Protection Level	IP67 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transi Protection	
Dimensions	578.3 mm × 571 mm × 955.7 mm (22.8" × 22.5" × 37.6")	
Weight	Approx. 100kg (220.5 lb)	



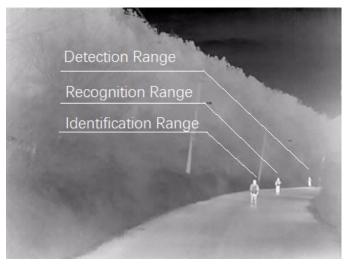
DRI Range Table

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

Smart Function Table

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

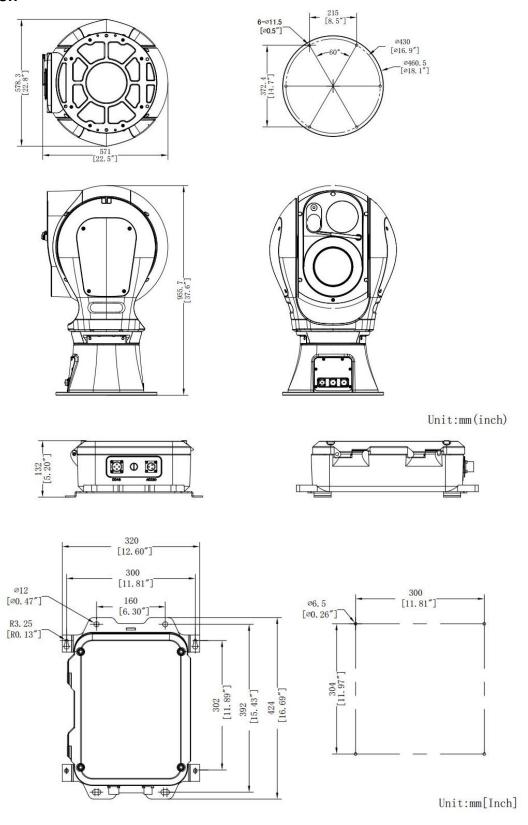
VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Fire Detection
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Measurement	Measurement	(Object: 2 × 2 m)	(Object: 1 × 1 m)
4.0 m)	0.5 m)	(Object: 2 × 2 m)	(Object: 1 × 1 m)		
4500 m	1500 m	5000 m	2500 m	12500 m	6250 m

Available Model

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Dimension



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