

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

- Behavior analysis function, based on deep learning algorithm: line crossing, intrusion, region entrance and exit
- Temperature exception alarm for fire prevention
- Fire detection algorithm
- 1280 × 1024 (the resolution of output image is 1920 × 1080) resolution 12 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
- Smart wiper, automatically turns on when it rains
- NEMA-4X Standard, Anti-corrosion coating





Specification

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	< 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					
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					
rain	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					



Illuminator	
IR Distance	Laser 3,000 m
IR Intensity and Angle	Automatically adjusted
Smart Function	
	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region
VCA	Exiting), up to 10 scenes and 8 VCA rules for each scene
	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
	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)
NA-in Characa	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)
Video Compression	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	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,
11000013	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 Storage	network replenishment (ANR)
API	ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profile G,
ALI	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
Web 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	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			
Audia Outrot	± 10%			
Audio Output	Linear Level; Impedance: 600 Ω			
Communication Interface	1, RJ45 10 M/100 M/1000 M Self-adaptive Ethernet interface.			
communication interface	1, RS-485 interface			
Analog Output	$1.0\ V\ [p-p]/75\ \Omega$, 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			
Dustastian Lavel	IP67 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient			
Protection Level	Protection			
Dimensions	578.3 mm × 571 mm × 955.7 mm (22.8" × 22.5" × 37.6")			
Weight	Approx. 100kg (220.5 lb)			



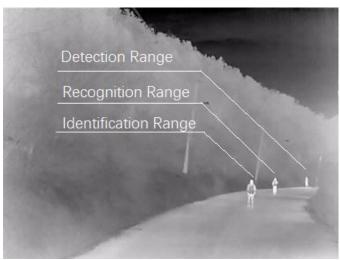
DRI Range Table

- * 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)	4.4.4.0	1 0 0 5)	4 4 4 0 \	4.00.5\
4.0 111)	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.

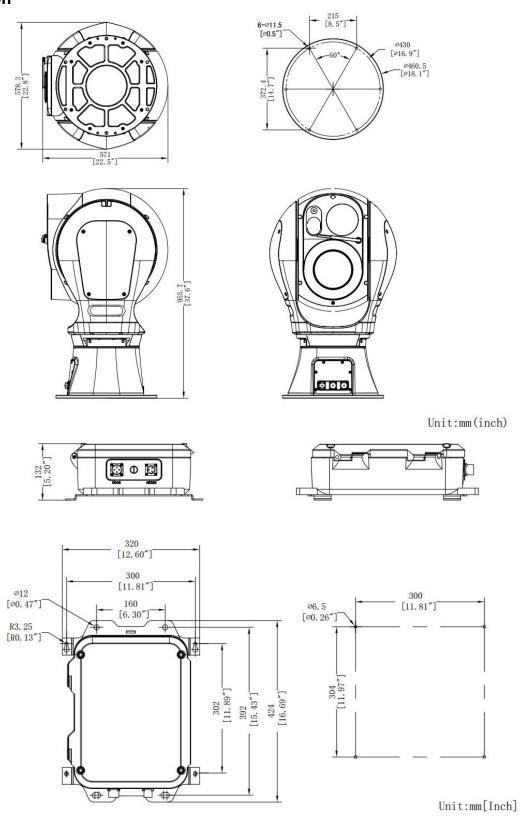
VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Fire Detection
(Vehicles: 1.4 × 4.0 m)	(Humans: 1.8 × 0.5 m)	Measurement (Object: 2 × 2 m)	Measurement (Object: 1 × 1 m)	(Object: 2 × 2 m)	(Object: 1 × 1 m)
4500 m	1500 m	5000 m	2500 m	12500 m	6250 m

Available Model

DS-2TD95C8-150ZE4FL/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.



Distributed by

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