

DS-2TD95C8-300ZK2FL/W

Thermal & Optical Bi-spectrum Network Sphere Positioning System





Hikvision DS-2TD95C8-300ZK2FL/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 Feature

- 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 $12 \mu m$, 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

Thermal Module					
Image Sensor	VOx Uncooled Focal Plane Arrays				
Resolution	1280 × 1024				
Pixel Pitch	12 μm				
Spectral Range	8 μm to 14 μm				
NETD	≤ 35 mK (@ 25°C,F# = 1.0)				
Focal Length	30 to 300 mm				
Focus Mode	Semi-auto & Manual				
IFOV	0.4 to 0.04 mrad				
Aperture	F0.85 to F1.35				
Field of View	28.7° × 23.2° (H × V) to 2.9° × 2.4° (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	31.2° × 17.8° (H × V) to 0.41° × 0.23° (H × V)				
Focal Length	10 to 1000 mm, 100x				
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				
Imaga Stabilization	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				
JULIEUUIEU 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					
D : 5 .	motion detection, video tampering alarm, alarm input and output, audio exception				
Basic Event	detection, scene change detection				
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 (1920 × 1080, 1280 × 960, 1280 × 720)				
	60 Hz: 30 fps (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					
	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				
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)				
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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 $K\Omega$
	± 10%
Audio Output	Linear Level; Impedance: $600~\Omega$
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	
	32 languages
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,
Menu Language	French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian,
Wiena Language	Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai,
	Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Power Supply	48 VDC ± 20%, 4-pin Aviation Connector
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 Transient
	Protection
Dimensions	578.3 mm × 571 mm × 955.7 mm (22.8" × 22.5" × 37.6")
Weight	Approx. 100 kg (220.5 lb)



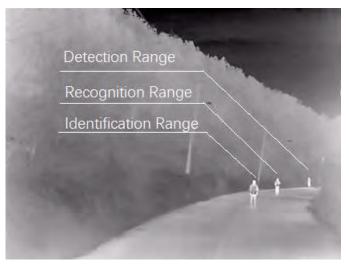
DRI Range Table

- * 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)
38333 m	12500 m	9583 m	3125 m	4792 m	1563 m

Smart Function Table

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

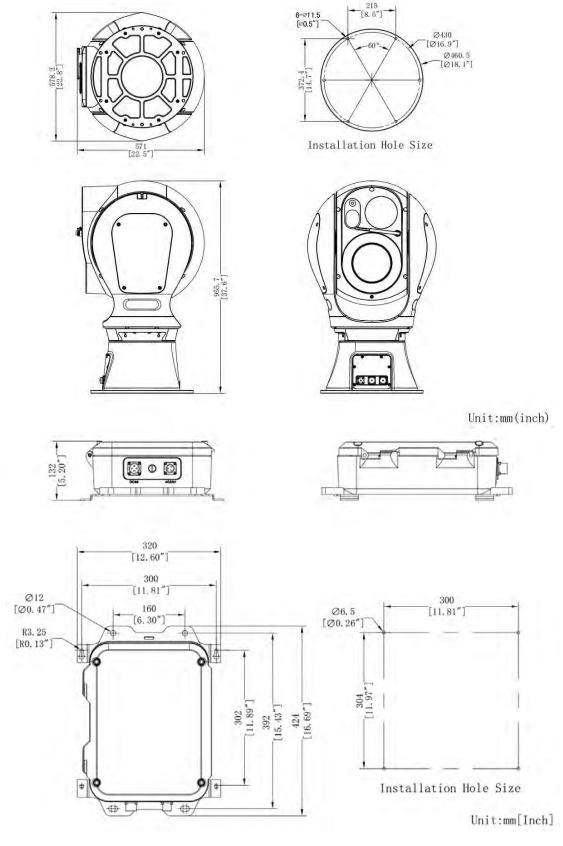
VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Fire Detection
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Measurement	Measurement	(Object: 2 × 2 m)	(Object: 1 × 1 m)
4.0 m)	0.5 m)	(Object: 2 × 2 m)	(Object: 1 × 1 m)		
8900 m	2950 m	10000 m	5000 m	25000 m	12500 m

Available Model

DS-2TD95C8-300ZK2FL/W



Dimension



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Headquarters No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 www.hikvision.com

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