

HM-TD95C8-150ZE4FL/W

Thermal & Optical Bi-spectrum Network Sphere Positioning System

















Hikvision HM-TD95C8-150ZE4FL/W(B) 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.

Features

- Perimeter protection function, based on intelligent algorithm: line crossing, intrusion, region entrance and exit
- 1280 × 1024 resolution 12 μm, VOx UFPA, NETD ≤25 mK (25 °C, F# = 1.0)
- Fire detection and smoke detection algorithm
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR
- Smart wiper, automatically turns on when it rains
- High quality detector with 10 years guarantee
- 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	Less than 25 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		
Image Stabilization	with 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		
Laser Distance	Up to 3000m	
Smart Function		
Basic Event	motion detection, video tampering alarm, alarm input and output, audio exception detection, scene change detection	
VCA	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 50 scenes and 8 VCA rules for each scene	
Fire Detection	Dynamic fire point detection, up to 10 fire points detectable.	
Smoke Detection	Up to 12km detection ability with 5m*5m smoke	
Video and Audio		
	Optical channel	
	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)	
Main Stream	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)	
	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)	
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Video Compression	Main stream: H.265/H.264 Sub-stream: H.265/H.264/MJPEG	
Audio Compression	G .711u/G.711a/G.722.1/MP2L2/G.726/PCM/AAC	
Video and Image	0.7114/0.7114/0.722.17WII 2L2/0.720/1 0W/AA0	
•	15 palettes (White hot, Black hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1,	
Color Palettes	Ironbow 2, Sepia, Color 1, Color 2, Icefire, Rain, Red hot, Green hot, Dark blue)	
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 512 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)	
API	ISAPI, ISUP, HIKVISION SDK, Open Network Video Interface (Profile S, Profile G Profile T), OTAP	



Simultaneous Live View	Up to 20 channels	
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User	
Coough	User authentication (ID and Password), MAC address binding, HTTPS	
Security	encryption, IEEE 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 +	
	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	
Aldilii Action	capture/FTP upload/Email linkage	
Accelia Insurant	1, 3.5 mm Mic in/Line in interface. Line input: 2 to 2.4 V [p-p], output impedance	
Audio Input	1 KΩ ± 10%	
Audio Output	Linear Level; Impedance: 600 Ω	
	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 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%, 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 Transient Protection		
Dimensions	578.3 mm × 571 mm × 955.7 mm (22.8 " × 22.5 " × 37.6 ")	
Weight	Approx. 100kg (220.5 lb)	
Detection Range Table		
VCA Range for Humans	1500 m	
VCA Range for Vehicles	3150 m	
Approval		
MC CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:201		



Safety	CB: IEC 62368-1: 2014+A11; CE-LVD: EN 62368-1: 2014/A11: 2017	
	CE-RoHS: 2011/65/EU,	
Environment	WEEE: 2012/19/EU,	
	Reach: Regulation(EC) No 1907/2006	
Protection	IP67: IEC 60529-2013	
Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018)	

Range Table

VCA Range (Vehicles: 1.4 × 4.0	VCA Range (Humans: 1.8 × 0.5	VCA Range (Vessels: 10 × 5 m)	Fire Detection (Object: 1 × 1 m)	Smoke Detection (Object: 5 × 5 m)
m)	m)			,
3150 m	1500 m	4500 m	6250 m	12000 m

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*Effective distance values shown are nominal values and should be used as estimates only. Exact value calculations depend on a wide variety of conditions. These values are calculated according to Stanag 4347 standards.

Target type	Human(1.8*0.5m)	Vehicle(1.4*4m)	Ship(10*5m)	Ship(20*5m)
Detection Range	5.1km	11.9km	15.4km	16.9km
Recognition Range	1.9km	4.3km	8.2km	11.3km
Identification Range	1km	2.1km	4.1km	6km

Typical Application

HIKMICRO products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

No products could be used under HYDROGEN FLUORIDE environment. This model has MODERATE PROTECTION.

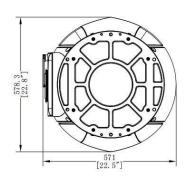
Level	Description
	HIKMICRO products at this level are equipped for use in
	areas where professional anti-corrosion protection is a
Top-level Protection	must. Usually it is used in salt-spray and sulfur dioxide
	(with a concentration volume ratio of less than 0.67%)
	environment, such as chemical plants and coastal lines.
	HIKMICRO products at this level are equipped for use in
	areas with moderate anti-corrosion demands. Typical
Moderate Protection	application scenarios include coastal areas about 2
	kilometers (1.24 miles) away from coastlines, as well as
	areas affected by acid rain.
	HIKMICRO products at this level are equipped for use in
No Specific Protection	areas where no specific anti-corrosion protection is
	needed.

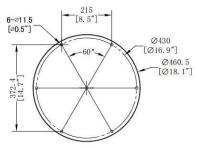


Available Model

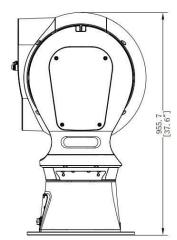
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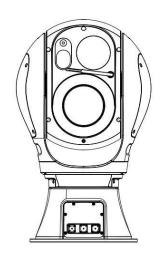
Dimension



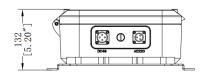


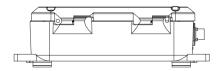
Installation Hole Size

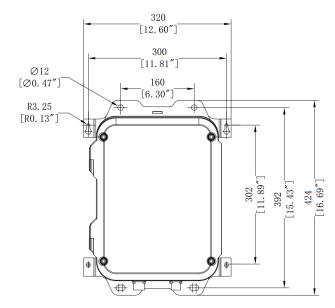


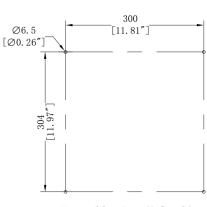


Unit:mm(inch)









Installation Hole Size

Unit:mm[Inch]





