DS-2TD4167-25/WY

Anti-corrosion Thermal and Optical Bi-spectrum Network Speed Dome

Hikvision DS-2TD4167-25/WY Anti-corrosion Thermal and Optical Bi-spectrum Network Speed Dome is applied to perimeter defense and fire-prevention purposes in scenes such as port, dock, island, aquafarm. The coating technology can meet the use requirements in anti-corrosion environment.

Key Feature

- Behavior analysis function, based on deep learning algorithm: line crossing, intrusion, region entrance and exit.
- Temperature exception alarm for fire prevention.
- Fire detection algorithm.
- 640 × 512 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
- NEMA-4X Standard

Specification

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	640 × 512
Pixel Interval	17 μm
Response Waveband	8 μm to 14 μm
NETD	≤ 35 mK (25 °C,F#=1.0)
Focal Length	25 mm
Focus Mode	Athermalized
IFOV	0.68 mrad
Aperture	F1.0
Field of View	24.5° × 19.7° (H × V)
Min. Focusing Distance	13 m
Digital Zoom	×2, ×4, ×8, ×16

Optical Module	
Image Sensor	1/1.8" Progressive Scan CMOS
Resolution	2688 × 1520, 4 MP
Min. Illumination	Color: 0.005 Lux @(F1.3, AGC ON), B/W: 0.001 Lux @(F1.3, AGC ON)
Field of View	56.6° × 33.7° (H × V) to 1.8° × 1.0° (H × V)
Focal Length	6-240 mm, 40x
Aperture (Range)	F1.3-F4.6
Focus Mode	Auto, Semi-auto, Manual
Shutter Speed	1s 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 -20° to + 90° (auto flip)
Pan Speed	Manual Speed: 0.1°/s to 160°/s; Preset Speed: 240°/s
Tilt Speed	Manual Speed: 0.1°/s to 120°/s; Preset: 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
Park	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan
PT Status	Turn On/Turn Off

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Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux Output
Illuminator	
IR Distance	Up to 200 m
IR Intensity and Angle	Automatically adjusted
Smart Function	
VCA	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	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 detection, up to 10 fire points detectable.
Video and Audio	
Main Stream	Optical channel 50 Hz:25 fps(2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz:30 fps(2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720) Thermal channel 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 384 × 288)
Sub-stream	Optical channel 50 Hz:25 fps(704 × 576, 352 × 288) 60 Hz:30 fps(704 × 576, 352 × 288) Thermal channel 25 fps (704 × 576, 640 × 480, 384 × 288)
Video Compression	Main stream: H.265+/H.265/H.264+/ H.264 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 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
API	ISAPI, HIKVISION SDK, third-party management platform, open network video interface
Simultaneous Live View	Up to 20 channels
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Security	User authentication (ID and PW), 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 +

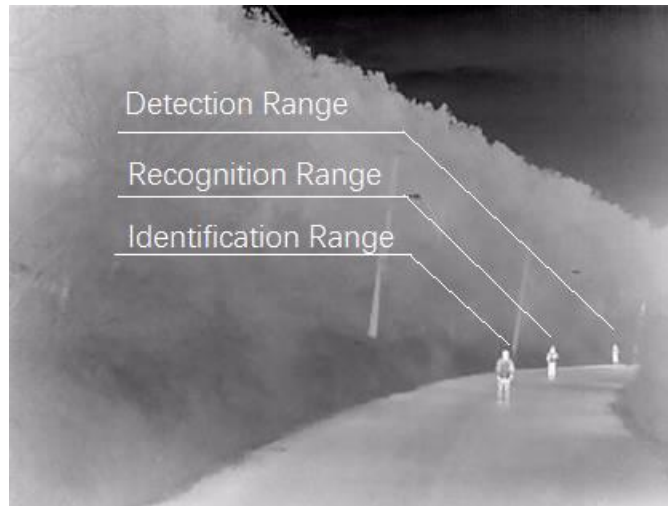| Interface	
Alarm Input	7-ch inputs (0-5 VDC)
Alarm Output	2-ch relay outputs, alarm response actions configurable
Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage
Audio Input	1, 3.5 mm Mic in/Line in interface. Line input: 2 - 2.4 V [p-p], output impedance: 1 KΩ ± 10%
Audio Output	Linear Level; Impedance: 600 Ω
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface
Analog Video Output	1.0 V [p-p]/75 Ω, BNC for thermal channel
General	
Web Client 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	24 VAC ± 25% Hi-PoE
Power Consumption	24V AC ± 25%: 5 A, max. 60 W Hi-PoE: Max. 60 W
Work Temperature/Humidity	From -40 °C to 65 °C (-40 °F to 149 °F) 95% or Less
Wiper	Yes
Protection Level	IP66 Standard TVS 6000 V Lightning Protection, Surge Protection and Voltage Transient Protection
Dimension	266.6 mm × 410 mm × 198.6 mm (10.5" × 16.15" × 7.82")
Weight	Approx. 9 kg (19.84 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.

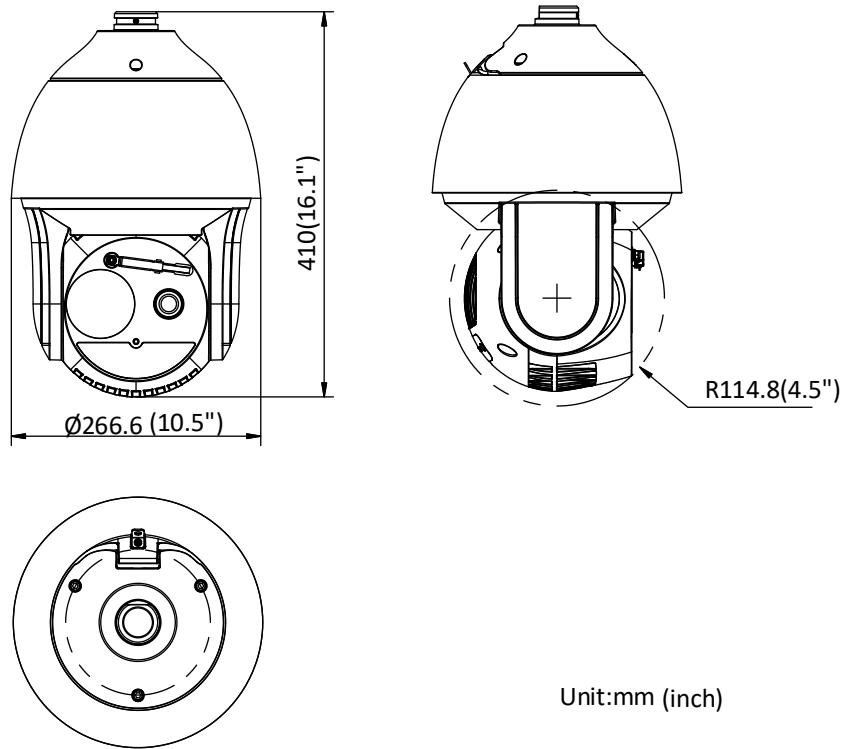| Detection Range (Vehicles: 1.4 × 4.0 m)	Detection Range (Humans: 1.8 × 0.5 m)	Recognition Range (Vehicles: 1.4 × 4.0 m)	Recognition Range (Humans: 1.8 × 0.5 m)	Identification Range (Vehicles: 1.4 × 4.0 m)	Identification Range (Humans: 1.8 × 0.5 m)
2255 m	735m	564m	184m	282m	92m

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)
515 m	184 m	585 m	295 m	1470 m	735 m

Available Model

DS-2TD4167-25/WY

Dimension

410(16.1")

Ø266.6 (10.5")

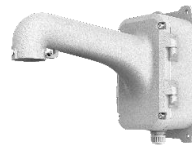R114.8(4.5")

Unit:mm (inch)

Accessory

DS-1602ZJ-Pole
Vertical Pole Mount

DS-1602ZJ
Wall Mount

DS-1604ZJ-box
Box

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