

#### **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.
- $640 \times 512$  resolution 17 µm, VOx UFPA, NETD  $\leq 35$  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					
	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame					
Park	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/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						
	Optical channel					
Main Stream	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)					
АРІ	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.					
Addio input	Line input: 2 - 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 Self-adaptive Ethernet interface.					
Communication interface	1, RS-485 interface					
Analog Video Output	1.0 V [p-p]/75 $\Omega$ , BNC for thermal channel					
General						
	32 languages					
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,					
Web Client Language	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%					
rowei	Hi-PoE					
	24V AC ± 25%: 5 A, max. 60 W					
Power Consumption	Hi-PoE: Max. 60 W					
Manle Tanananatuna (Humaidite)	From -40 °C to 65 °C (-40 °F to 149 °F)					
Work Temperature/Humidity	95% or Less					
Wiper	Yes					
Protection Level	IP66 Standard					
FIOLECTION LEVEL	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)					



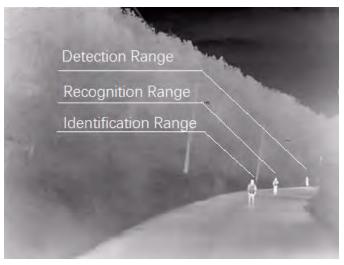
### **DRI Range Table**

- \* 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.



<b>Detection Range</b>	<b>Detection Range</b>	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.

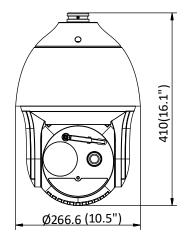
VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Fire Detection
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Measurement	Measurement	(Object: 2 × 2 m)	(Object: 1 × 1 m)
4.0 m)	0.5 m)	(Object: 2 × 2 m)	(Object: 1 × 1 m)		
515 m	184 m	585 m	295 m	1470 m	735 m

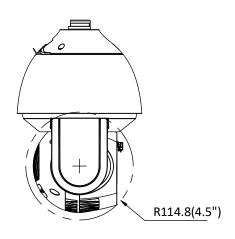
#### **Available Model**

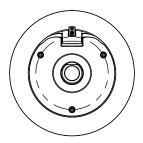
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#### **Dimension**







Unit:mm (inch)

## **Accessory**







DS-1602ZJ Wall Mount



DS-1604ZJ-box Box

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