

DS-2TD4167-50/WY Thermal and Optical Bi-spectrum Network Speed Dome





Hikvision DS-2TD4167-50/WY Thermal and Optical Bi-spectrum Network Speed Dome equipped with built-in GPU which sup ports intelligent perimeter protection algorithm, can realize high-precision VCA detection and real-time alarm. It is applied for perimeter protection and fire-prevention in critical infrastructures such as community, villa, construction site, factory, 4S stores, and so on . The pre-alarm system helps you discover unexpected events immediately and protects your property.

- Perimeter protection function, based on intelligent algorithm: line crossing, intrusion, region entrance and exit
- Temperature exception alarm for fire prevention
- 640 × 512 (the resolution of output image is 640 × 512) resolution 17 μ m, VOx UFPA, NETD \leq 40 mK (25 °C, F# = 1.1)
- 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
- Thermal channel supports EIS, conflicted with intelligent function
- Fire and smoke detection algorithm



Specification

Image Sensor VOx Uncooled Focal Plane Arrays Resolution 640 × 512 Pixel Interval 17 µm Response Wavebund 8 µm to 14 µm NETD Less than 40 mK (@ 25 °C,F₱=1.0) Focal Length 50 mm Focal Length 50 mm Focus Mode Athermatized IFOV 0.34 mrad Aperture F1.0 Field of View 12.4° × 9.9° (H × V) Min. Focusing Distance 50m Digital Zoom ×2, x4, x8 Optical Modue Image Sensor 171.8° 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) – 1.8° ×1.0° (H × V) Focal Length 6-240 mm, 40x Aperture (Range) F1.3-F4.6 Focus Mode Auto/Semi-auto/Manual Digital Zoom ×2, x4, x8, x16 Shutter Speed 13 to 1/30,000s WDR 120 dB Optical Defog Yes	Thermal Module				
Pixel Interval 17 μm Response Wavebund 8 μm to 14 μm NETD Less than 40 mK (@ 25 °C,F#=1.0) Focal Length 50 mm Focal Length 50 mm Focal Length 50 mm Focal Sode Athermalized IFOV 0.34 mrad Aperture F1.0 Field of View 12.4* × 9.9° (H × V) Min. Focusing Distance Digital Zoom 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 @(F1.3, AGC ON), B/W: 0.001 Lux @(F1.3, AGC ON) Field of View 56.6° ×33.7" (H × V) - 1.8° × 1.0" (H × V) Focal Length 6-240 mm, 40x Aperture (Range) F1.3-74.6 Focus Mode Auto/Scmi-auto/Manual Digital Zoom ×2, ×4, ×8, ×16 Stutter Speed 1s to 1/30,000s WDR 120 dB Optical Defog Yes Image Effect Picture	Image Sensor	VOx Uncooled Focal Plane Arrays			
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Digital Zoom	Aperture (Range)	F1.3-F4.6			
Shutter Speed Is to 1/30,000s 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 Configurable, From 0.1°/s to 200°/s, Preset Speed: 240°/s Tilt Speed Configurable, From 0.1°/s to 105°/s, Preset Speed: 200°/s Proportional Zoom Yes Presets 300 in total, 273 are configurable. Patrol Scan S; Up to 32 Presets Per Patrol Pattern Scan S; 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 Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output Illuminator IR Distance Day & Night IR cut filter, up to 150m	Focus Mode	Auto/Semi-auto/Manual			
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Pan Speed Configurable, From 0.1°/s to 200°/s, Preset Speed: 240°/s Tilt Speed Configurable, From 0.1°/s to 105°/s, Preset Speed: 200°/s Proportional Zoom Yes Presets 300 in total, 273 are configurable. Patrol Scan 8; Up to 32 Presets Per Patrol Pattern Scan 5; 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 IR Distance Day & Night IR cut filter, up to 150m	PTZ				
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Proportional Zoom Yes Presets 300 in total, 273 are configurable. Patrol Scan 8; Up to 32 Presets Per Patrol Pattern Scan 5; 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/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output Illuminator IR Distance Day & Night IR cut filter, up to 150m	Pan Speed	Configurable, From 0.1°/s to 200°/s, Preset Speed: 240°/s			
Presets 300 in total, 273 are configurable. Patrol Scan 8; Up to 32 Presets Per Patrol Pattern Scan 5; 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 IR Distance Day & Night IR cut filter, up to 150m	Tilt Speed	<u> </u>			
Patrol Scan 8; Up to 32 Presets Per Patrol Pattern Scan 5; 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 IR Distance Day & Night IR cut filter, up to 150m	Proportional Zoom	-			
Pattern Scan 5; More Than 10 Minutes Per Pattern 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 IR Distance Day & Night IR cut filter, up to 150m	Presets	300 in total, 273 are configurable.			
Power Off Memory 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 IR Distance Day & Night IR cut filter, up to 150m	Patrol Scan	8; Up to 32 Presets Per Patrol			
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 IR Distance Day & Night IR cut filter, up to 150m	Pattern Scan	5; More Than 10 Minutes Per Pattern			
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/Doom Reboot/Doom Adjust/Aux Output Illuminator IR Distance Day & Night IR cut filter, up to 150m	Power Off Memory	Yes			
Scheduled Task Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output Illuminator IR Distance Day & Night IR cut filter, up to 150m	Park				
Scheduled Task Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output Illuminator IR Distance Day & Night IR cut filter, up to 150m	PT Status	Turn On/Turn Off			
Illuminator IR Distance Day & Night IR cut filter, up to 150m	Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame			
	Illuminator				
IR Intensity and Angle Automatically adjusted	IR Distance	Day & Night IR cut filter, up to 150m			
	IR Intensity and Angle	Automatically adjusted			



Smart Function			
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 detection, up to 10 fire points detectable.		
Video and Audio			
	Thermal channel		
	50 fps $(1920 \times 1080, 1280 \times 960, 1280 \times 720, 704 \times 576, 640 \times 512, 384 \times 288)$		
3.6.1. G.	Optical channel		
Main Stream	50Hz:25fps(2688×1520 , 1920×1080 , 1280×960 , 1280×720)		
	30HZ:231ps(2088 × 1320 , 1920 × 1080, 1280 × 900, 1280 × 720)		
	60 Hz: 30 fps(2688×1520 , 1920×1080 , 1280×960 , 1280×720)		
	Thermal channel		
	50fps(704×576, 640×512, 384×288)		
Sub-stream	Optical channel		
	50Hz:25fps(704 × 576, 352 × 288)		
	60Hz:30fps(704 × 576, 352 × 288)		
T G .	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		
Network			
Duete a ala	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS,		
Protocols	NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE		
Network Storage	MicroSD/SDHC/SDXC card (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,T,G)		
Simultaneous Live View	Up to 20 channels		
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User		
Committy	User authentication (ID and password), MAC address binding, HTTPS encryption,		
Security	IEEE 802.1x 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		
web blowser	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 K Ω \pm 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			
Analog Video Output	1.0 V [p-p]/75 Ω		



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 Supply	$24V \text{ AC} \pm 20\%$, $36V \text{ DC} \pm 20\%$, $48V \text{ DC} \pm 20\%$, Hi-PoE	
Power Consumption	onsumption 65W Max	
Work Temperature/Humidity	From -40°C to 65°C (-40°F to 149°F); Humidity: 95% or Less	
Wiper Yes		
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection	
Dimension 220 mm × 410 mm × 198.6 mm (8.66" × 16.15" × 7.82")		
Weight Approx. 9kg (19.84 lb)		
Detection Range Table		
VCA Range for Humans	350 m	
VCA Range for Vehicles	1050 m	
Approval		
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN50130-4: 2011+A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 7)	
Safety	CB: IEC 62368-1: 2014+A11; CE-LVD: EN 62368-1: 2014/A11: 2017; BIS: IS 13252 (Part 1): 2010/ IEC 60950-1: 2005	
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation(EC) No 1907/2006	
Protection	IP66: IEC 60529-2013	
Anti-Corrosion Protection	C5	

Range Table

(V	CA Range ehicles: 1.4 ×	VCA Range (Humans: 1.8 ×	Temperature Measurement	Temperature Measurement	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
4.0) m)	0.5 m)	(Object: $2 \times 2 \text{ m}$)	(Object: $1 \times 1 \text{ m}$)		

DORI

Detection Range: In order to distinguish an object from the background, the image must be covered by 1.5 or more pixels. Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the image must have at least 6 pixels across its critical dimension.

Identification Range: In order to identify the object and describe it in details, the critical dimension must have be least 12 pixels across

^{*} The table is only for reference and the performance may vary from camera to camera.



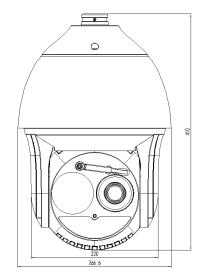
Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	$1.4 \times 4.0 \text{ m}$	$1.8 \times 0.5 \text{ m}$	$1.4 \times 4.0 \text{ m}$	$1.8 \times 0.5 \text{ m}$
4510 m	1470 m	1127 m	368 m	564 m	184 m

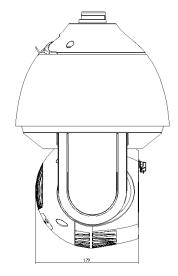
Available Model

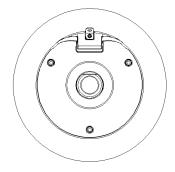
DS-2TD4167-50/WY DS-2TD4167-50/WY(B)

Dimension









Unit:mm



Accessory

Optional

DS-1604ZJ-box	DS-1602ZJ-Pole	DS-1603ZJ
Wall mount	Vertical pole mount	DS-1603ZJ

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.

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