DS-2TD4538-25A4/W(海外标配)
Bi-spectrum Mobile Thermal PTZ Camera



Hikvision DS-2TD4538-25A4/W Bi-spectrum mobile thermal PTZ camera supports temperature measurement and perimeter protection. DS-2TD4538-25A4/W has a wide range of applications in fields such as fire engine, patrol vehicle in some scenarios like border, construction site, etc.

▪ Features

- 384 × 288 resolution, 12 μm, VOx UFPA, NETD < 35 mK (25°C, F1.0)
- High accuracy temperature exception alarm, -20°C to 150°C (-4°F to 302°F), ± 8°C (± 14.4°F)
- Image processing technology: linear, histogram, self-adaptive thermal AGC mode, DDE, 3D DNR
- 2.4GHz Wi-Fi, easy for set-up; LTE-TDD/LTE-FDD/WCDMA 4G wireless network transmission, support Micro SIM card
- Professionally designed structure, strong anti-shake capacity
- E-mark and EN45545 on-board certification

▪ Specification

Thermal Module	
Image Sensor	VOx Uncooled Focal Plane Arrays
Resolution	384 x 288
Spectral Range	8 μm to 14 μm
Pixel Pitch	12 μm
Focal Length	25 mm
Focus Mode	Athermalized
IFOV	0.48 mrad
NETD	Less than 35 mK (@25 °C,F#=1.0)
Field of View	10.5° × 7.9° (H × V)
Aperture	F1.0
Digital Zoom	×1, ×2, ×4, ×8
Min. Focusing Distance	23 m
Optical Module	
Image Sensor	1/2.8" Progressive Scan CMOS
Resolution	2560 × 1440, 4 MP
Field of View	55°×33° (H × V)~2.4°×1.4° (H × V)
Focal Length	4.8 mm ~ 120 mm , 25X
Min. Illumination	Color: 0.05 Lux @ (F1.3, AGC ON), B/W: 0.01 Lux @ (F1.3, AGC ON)
Aperture (Range)	F1.0-F1.6
Focus Mode	Semi-auto & Manual
Digital Zoom	×1, ×2, ×4, ×8 , ×16
Day & Night Mode	IR cut filter with auto switch
Shutter Speed	1/1 s to 1/30,000 s
WDR	120 dB
Optical Defog	No, support defog by algorithm
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(Up to 15 types)
PTZ	
Movement Range	Pan: 360° Continuous Rotate; Tilt: From -20° to + 90° (auto flip)
Pan Speed	Configurable, From 0.2°/s to 200°/s
Tilt Speed	Configurable, From 0.2°/s to 100°/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
Illuminator	
IR Distance	Up to 100m

IR Intensity and Angle	Automatically adjusted
Smart Function	
VCA	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total.
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	
Main Stream	Optical channel 50 Hz: 25 fps (2560× 1440 , 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (2560 × 1440 , 1920 × 1080, 1280 × 960, 1280 × 720) Thermal channel 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 x 576, 640 x 512, 384 x 288)
Sub-stream	Optical channel 50 Hz: 25fps (704 × 576, 352 × 288) 60 Hz: 30 fps (704 × 576, 352 × 288) Thermal channel 25 fps (704 × 576, 640 × 512, 384 × 288)
Video Compression	Main stream: H.265+/H.265/H.264+/ H.264 Sub-stream: H.265/H.264
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, ONVIF (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
Security	User authentication (ID and password), MAC address binding, HTTPS encryption, 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 57.0 +, Firefox 52.0 + Local service : Chrome 57.0+, Firefox 52.0 +
Mobile Communication	
SIM Card Type	MicroSIM
Frequency	LTE FDD: B 1/3/5/7/8/20/28 LTE TDD: B 38/40/41 WCDMA: B 1/5/8
Standard	LTE FDD/LTE TDD/WCDMA

Wi-Fi	Wi-Fi standard: IEEE802.11b, 802.11g, 802.11n Frequency range: 2.4GHz~2.4835GHz Channel bandwith: Support 20MHz Security: 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK
Interface	
Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface
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	DC8V~DC36V
Power Consumption	Max. < 20 W
Working Temperature/Humidity	From -40°C to 70°C (-40°F to 140°F); Humidity: 90% or Less
Protection Level	IP67 Standard; TVS 4000V Lightning Protection, Surge Protection and Voltage Transient Protection
Dimensions	Ø180mm× 300mm
Weight	Approx. 4.2 kg (9.3 lb)
Detection Range Table	
VCA Range for Humans	250 m
VCA Range for Vehicles	750 m
Approval	
Other	E-mark and EN45545 on-board certification

▪ Range Table

VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 0.2 × 0.2 m)	Temperature Measurement (Object: 1 × 1 m)
750m	250m	83m	417m

▪ DORI

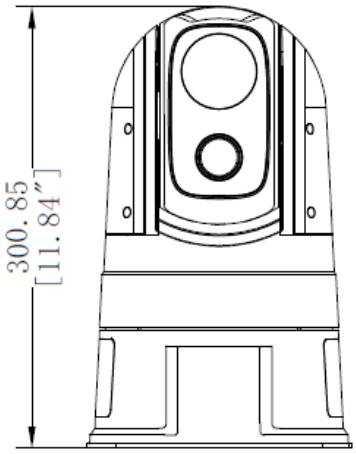
* The table is only for reference and the performance may vary from camera to camera.
Detection Range: In order to distinguish an object from the background, the image must be covered by 1.5 or more pixels.
Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the image must 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

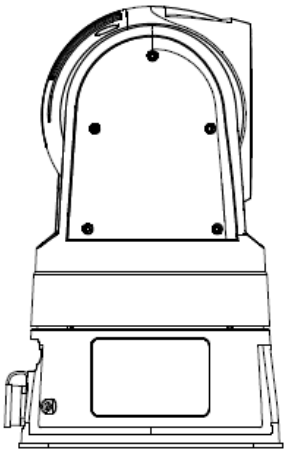
Detection Range (Vehicles: 1.4 × 4.0 m)	Detection Range (Humans: 1.8 × 0.5 m)	Recognition Range (Vehicles: 1.4 × 4.0 m)	Recognition Range (Humans: 1.8 × 0.5 m)	Identification Range (Vehicles: 1.4 × 4.0 m)	Identification Range (Humans: 1.8 × 0.5 m)
3194m	1042m	799m	260m	399m	130m

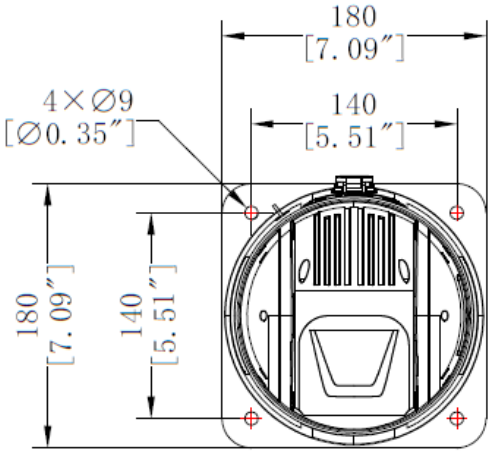
▪ Available Model

DS-2TD4538-25A 4/W

▪ Dimension







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