

DS-2TD4568-25A4/W Bi-spectrum Mobile Thermal PTZ Camera



Hikvision DS-2TD4568-25A4/W Bi-spectrum mobile thermal PTZ camera supports temperature measurement and perimeter protection. DS-2TD4568-25A4/W has a wide range of applications in fields such as fire engine, patrol vehicle in some scenarios like perimeter protection, construction site, etc.

- 640 × 512 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
- Support GPS positioning function
- 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

| Model | | DS-2TD4568-25A4/W |
|-----------------------|------------------------|--|
| Thermal Module | Image Sensor | VOx Uncooled Focal Plane Arrays |
| | Resolution | 640 x 512 |
| | 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 | 17.4° × 13.9° (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 |

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| | 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 (1280 × 720, 704 × 576, 352 × 288, 384 × 288) |
| | Sub-stream | Optical channel 50 Hz: 25fps (704 × 576, 352 × 288) 60 Hz: 30 fps (704 × 576, 352 × 288) |
| | | Thermal channel 50 fps (704 × 576, 352 × 288, 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 |

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|------------------|------------------------------|--|
| | Standard | LTE FDD/LTE TDD/WCDMA |
| | Wi-Fi | Wi-Fi standard: IEEE802.11b, 802.11g, 802.11n Frequency range: 2.4GHz~2.4835GHz Channel bandwidth: 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. < 25 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(height) |
| | Weight | Approx. 4.5 kg (10.8 lb) |
| 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

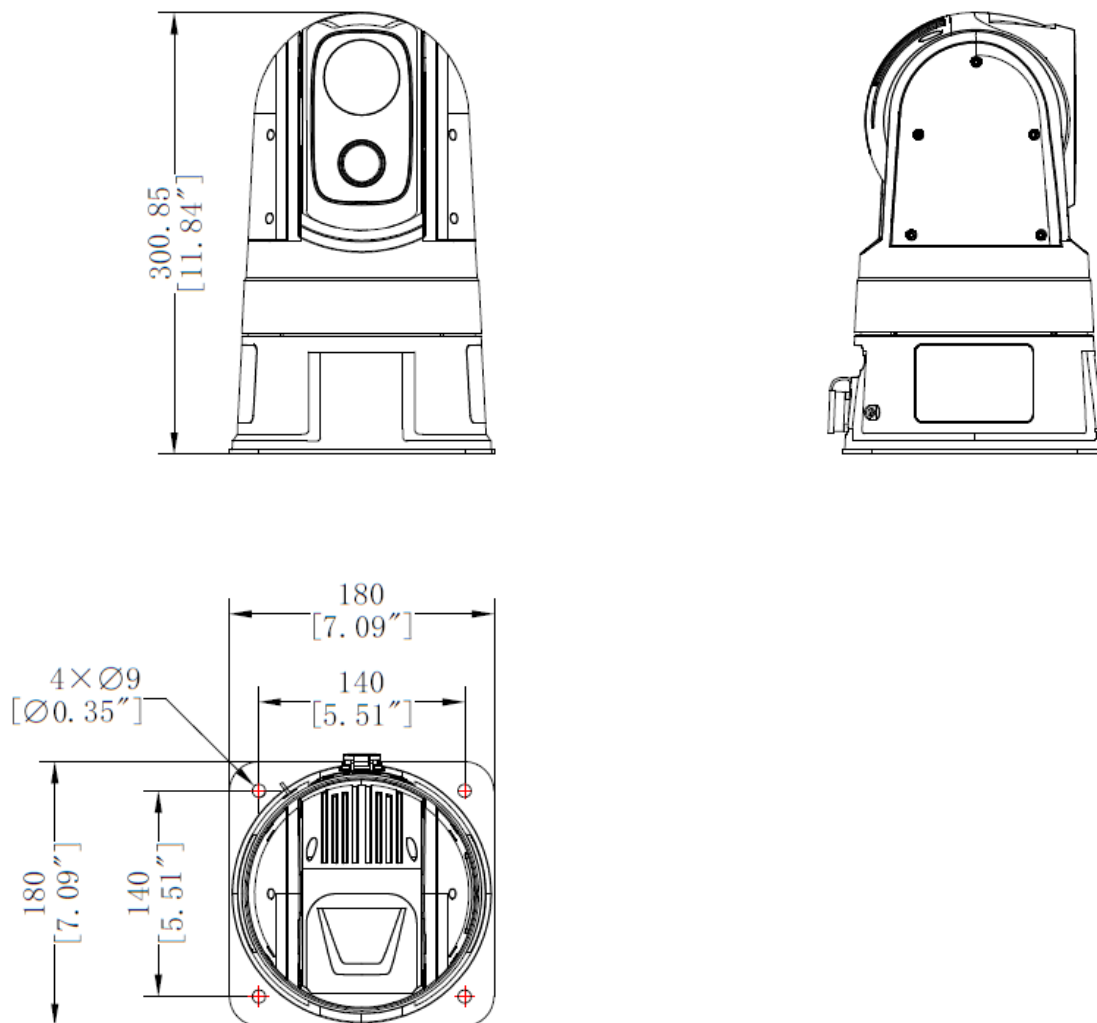
| Detection Range | Detection Range | Recognition Range | Recognition Range | Identification Range | Identification Range |
|-----------------|-----------------|-------------------|-------------------|----------------------|----------------------|
|-----------------|-----------------|-------------------|-------------------|----------------------|----------------------|

| (Vehicles: 1.4 × 4.0 m) | (Humans: 1.8 × 0.5 m) | (Vehicles: 1.4 × 4.0 m) | (Humans: 1.8 × 0.5 m) | (Vehicles: 1.4 × 4.0 m) | (Humans: 1.8 × 0.5 m) |
|------------------------------------|----------------------------------|------------------------------------|----------------------------------|------------------------------------|----------------------------------|
| 3194m | 1042m | 799m | 260m | 399m | 130m |

▪ **Available Model**

DS-2TD4568-25A4/W

▪ **Dimension**



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