

**DS-2TD4668-25A4/W(海外标配)****Bi-spectrum Portable Thermal PTZ Camera**

Hikvision DS-2TD4668-25A 4/W Bi-spectrum portable thermal PTZ camera supports temperature measurement, fire detection and perimeter protection. It is also equipped with a high-suction magnet at the base, which is easy to install. DS-2TD4668-25A 4/W can be widely applied in temporary operation scenes like substation etc.

**▪ Features**

- 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
- 2.4GHz Wi-Fi, easy for set-up.; LTE-TDD/LTE-FDD/WCDMA 4G wireless network transmission, support Micro SIM card
- One battery can support more than 10 hours of continuous working when the camera is only recording, and less than 6 hours of charging time when the camera is off
- Support mic and speaker
- Equipped with high suction magnets at the bottom, easy to install

## ▪ Specification

| Thermal Module         |                                                                                          |
|------------------------|------------------------------------------------------------------------------------------|
| Image Sensor           | VOx Uncooled Focal Plane Arrays                                                          |
| Resolution             | 640 x 512                                                                                |
| Spectral Range         | 8 $\mu\text{m}$ to 14 $\mu\text{m}$                                                      |
| Pixel Pitch            | 12 $\mu\text{m}$                                                                         |
| 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 @ (F1.5, AGC ON), B/W: 0.01 Lux @ (F1.5, 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          | 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 0.2°/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                                                                                                                                                                                                             |
| <b>Smart Function</b>       |                                                                                                                                                                                                                                    |
| VCA                         | 4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total.                                                                                                                      |
| 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.                                                                                                                                                                           |
| <b>Video and Audio</b>      |                                                                                                                                                                                                                                    |
| Main Stream                 | Optical channel<br>50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)<br>60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)<br>Thermal channel<br>25 fps (1280 × 720, 704 × 576, 352 × 288, 384 × 288) |
| Sub-stream                  | Optical channel<br>50 Hz: 25fps (704 × 576, 352 × 288)<br>60 Hz: 30 fps (704 × 576, 352 × 288)<br>Thermal channel<br>25 fps (704 × 576, 352 × 288, 384 × 288)                                                                      |
| Video Compression           | Main stream: H.265+/H.265/H.264+/ H.264<br>Sub-stream: H.265/H.264                                                                                                                                                                 |
| Audio Compression           | G.711u/G.711a/G.722.1/MP2L2/G.726/PCM/AAC                                                                                                                                                                                          |
| <b>Video and Image</b>      |                                                                                                                                                                                                                                    |
| Color Palettes              | 15 types (White hot, Black hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1, Ironbow 2, Sepia, Color 1, Color 2, Ice fire, Rain, Red hot, Green hot, Dark blue)                                                                         |
| <b>Network</b>              |                                                                                                                                                                                                                                    |
| 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 +                                                                           |
| <b>Mobile Communication</b> |                                                                                                                                                                                                                                    |
| SIM Card Type               | MicroSIM                                                                                                                                                                                                                           |
| Frequency                   | LTE FDD: B 1/3/5/7/8/20/28<br>LTE TDD: B 38/40/41<br>WCDMA: B 1/5/8                                                                                                                                                                |

|                              |                                                                                                                                                                                                                                                                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard                     | LTE FDD/LTE TDD/WCDMA                                                                                                                                                                                                                                                                                                                        |
| Wi-Fi                        | Wi-Fi standard: IEEE802.11b, 802.11g, 802.11n<br>Frequency range: 2.4GHz~2.4835GHz<br>Channel bandwidth: Support 20MHz<br>Security: 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK                                                                                                                                                               |
| <b>Interface</b>             |                                                                                                                                                                                                                                                                                                                                              |
| Alarm Action                 | Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage                                                                                                                                                                                                                                           |
| Audio Input                  | Built-In 2 Mics                                                                                                                                                                                                                                                                                                                              |
| Audio Output                 | Built-In Speaker                                                                                                                                                                                                                                                                                                                             |
| Communication Interface      | 1, RJ45 10 M/100 M Self-adaptive Ethernet interface.<br>1, RS-485 interface                                                                                                                                                                                                                                                                  |
| <b>General</b>               |                                                                                                                                                                                                                                                                                                                                              |
| Menu Language                | 32 languages<br>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                 | 12VDC $\pm$ 20%, two-core terminal block                                                                                                                                                                                                                                                                                                     |
| Power Consumption            | 2A, max. 20 W                                                                                                                                                                                                                                                                                                                                |
| Working Temperature/Humidity | From -20°C to 60°C (-68°F to 140°F); Humidity: 90% or Less                                                                                                                                                                                                                                                                                   |
| Protection Level             | IP67 Standard; TVS 4000V Lightning Protection, Surge Protection and Voltage Transient Protection                                                                                                                                                                                                                                             |
| Dimensions                   | Ø176mm×299mm                                                                                                                                                                                                                                                                                                                                 |
| Weight                       | Approx. 4.5 kg (10.8 lb)                                                                                                                                                                                                                                                                                                                     |
| Mount                        | Magnetic suction mounting                                                                                                                                                                                                                                                                                                                    |
| <b>Detection Range Table</b> |                                                                                                                                                                                                                                                                                                                                              |
| VCA Range for Humans         | 250 m                                                                                                                                                                                                                                                                                                                                        |
| VCA Range for Vehicles       | 750 m                                                                                                                                                                                                                                                                                                                                        |
| <b>Battery</b>               |                                                                                                                                                                                                                                                                                                                                              |
| Battery Type                 | Lithium battery                                                                                                                                                                                                                                                                                                                              |
| Battery Voltage              | 10.9V                                                                                                                                                                                                                                                                                                                                        |
| Battery Capacity             | 10.5 Ah                                                                                                                                                                                                                                                                                                                                      |
| Max. Charging Voltage        | 12.6 V                                                                                                                                                                                                                                                                                                                                       |

## ▪ Range 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: 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 according to different environment.*

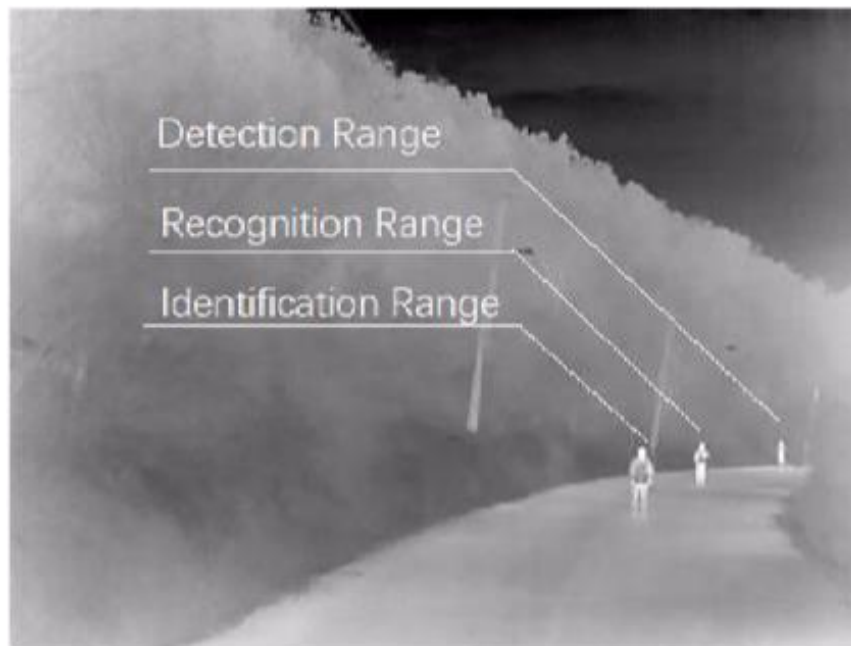
*\*The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria.*

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<br>(Vehicles: 1.4 × 4.0 m) | Detection Range<br>(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) |
|--------------------------------------------|------------------------------------------|-------------------------------------------|-----------------------------------------|----------------------------------------------|--------------------------------------------|
| 3194 m                                     | 1042m                                    | 799m                                      | 260 m                                   | 399m                                         | 130 m                                      |

## ▪ Available Model

DS-2TD4668-25A 4/W

## ▪ Dimension

