# DS-2TD4237-25/V2
## Thermal & Optical Bi-spectrum Network Speed Dome

DeepinView series

Hikvision DS-2TD4237-25/V2 Thermal & Optical Bi-spectrum Network Speed Dome equipped with built-in GPU which support intelligent behavior analysis algorithm, can realize high precision VCA detection and real-time alarm. It is applied to perimeter defense and fire-prevention purposes in critical infrastructures such as: airport, railway, prison, power station, 4S stores, and so on. The pre-alarm system helps you discover unexpected events immediately and protects you from property loss.

## Smart Function (Thermal Imaging)

● Leading image processing technology: Adaptive AGC, DDE, 3D DNR, NETD less than 40 m K (25°C), F#=1.0
● Smart tracking: Panorama tracking, Event tracking and Multi-scene patrol tracking
● Smart tracking linkage: thermal view and optical view
● Powerful behavior analysis algorithm: Line crossing, Intrusion, Region Entrance & Exit
● Reliable temperature exception alarm function
● Advanced fire detection algorithm

## Thermal Imaging Module Function

● 384 × 288 (the resolution of output image is 1280 × 720) resolution sensor, high sensitivity sensor, support contrast adjustment
● Shutter adjustment in various modes
● 3D DNR, 15 palettes of color adjustable, image detail enhancement

## Specification

### Thermal Module

| | |
|---|---|
| Image Sensor | Vanadium Oxide Uncooled Focal Plane Arrays |
| Max. Resolution | 384 × 288 (the resolution of output image is 1280 × 720) |
| Pixel Interval | 17μm |
| Response Waveband | 8μm to 14μm |
| NETD | less than 40 mK (25°C), F#=1.0 |
| Lens (Focal Length) | 25 mm |
| IFOV | 0.68 mrad |
| Field of View | 14.88° × 11.19° (H × V) (H × V) |
| Min. Focusing Distance | 13 m |
| Aperture | F1.0 |

### Optical Module

| | |
|---|---|
| Image Sensor | 1/2.8" Progressive Scan CMOS |
| Max. Image Resolution | 1920 × 1080 |
| Min. Illumination | Color: 0.05 Lux @(F1.2,AGC ON), B/W: 0.01 Lux @(F1.2, AGC ON) |
| Lens (Focal Length) | 4.8-153mm |
| Field of View | horizontal FOV 58.4° to 2.14°, vertical FOV 33.8° to 1.2°, diagonal FOV 65.6° to 2.46° |
| Aperture Range | F1.2-F4.4 |
| Focus Mode | Auto / Semiautomatic / Manual |
| WDR | 120 dB |
| Shutter Speed | 1s to 1/100,000s |
| Day & Night | IR cut filter |

### Smart Function

| | |
|---|---|
| VCA (Video Content Analysis) | 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules. |
| Temperature Measurement | 3 temperature measurement rule types, 21 rules (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 | Indoor dynamic fire point detection, up to 10 fire points detectable. |
| Smoke detection | Indoor smoke detection, up to 10 smoke detectable. |

### PTZ

| | |
|---|---|
| Movement Range | Pan: 360° Continuous Rotate; Tilt: From -5° to +90° (auto flip) |
| Pan Speed | 0.1°/s to 200°/s |
| Tilt Speed | 0.1°/s to 105°/s |
| Proportional Zoom | Yes |
| Presets | 300 |
| 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 |
| 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 |
| **Infrared** | |
| IR Distance | Up to 100 m |
| IR Intensity and Angle | Auto Adjust |
| **Network** | |
| Main Stream | Visible Light: 50Hz: 25fps (1920 × 1080), 25fps (1280 × 960), 25fps (1280 × 720)<br>Visible Light: 60Hz: 30fps (1920 × 1080), 30fps (1280 × 960), 30fps (1280 × 720)<br>Thermal: 25fps(1280 × 720), 25fps(704 × 546), 25fps(384 × 288), 25fps(352 × 288) |
| Sub Stream | Visible Light: 50Hz: 25fps (704 × 576), 25fps (352 × 288)<br>Visible Light: 60Hz: 30fps (704 × 480), 30fps (352 × 288)<br>Thermal: 25fps(704 × 546), 25fps(384 × 288), 25fps(352 × 288) |
| Video Compression | H.265 (Main Profile)<br>H.264 (Baseline/Main/High Profile) |
| Audio Compression | G .711u/G.711a/G.722.1/MP2L2/G.726/PCM |
| Protocols | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour |
| Simultaneous Live View | Up to 20-ch |
| User/Host level | Up to 32 users, 3 levels: Administrator, Operator, User |
| Security Measures | User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering |
| **Integration** | |
| Alarm Input | Up to 7-ch inputs (0-5V DC) |
| Alarm Output | Up to 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 3.5mm Mic in/Line in interface. Line input: 2-2.4V[p-p], output impedance:1KΩ±10% |
| Audio Output | Linear Level; Impedance: 600Ω |
| Reset | 1 Reset Button |
| Ethernet | 1 RJ45 10M/100M Self-adaptive Ethernet interface, 1 RS-485 interface |
| SD Memory Card | Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 256G), support manual/alarm recording |
| Analog Video Output | 1.0V [p-p]/75Ω, PAL/NTSC/BNC |
| Application Programming | Open-ended API, support ISAPI, HIKVISION SDK and third-party management platform |
| Client | iVMS-4200 |
| Web Browser | IE9+, chrome31-chrome44, Firefox 30-Firefox51, Safari 5.02+(mac) |

| General | |
|---|---|
| Menu language | English |
| Power | 24 V AC± 25% |
| Power Consumption | 30W |
| Working Temperature/Humidity | -30 °C to 60 °C (-22 °F to 140 °F), 90% or less |
| Protection Level | IP66 Standard<br>TVS 6000V Lightning protection, surge protection, voltage transient protection |
| Dimensions | 305 mm × 185 mm × 163 mm (12.01 " × 7.28" × 6.42 ") |
| Weight | 3.9Kg (8.6lb) |

## Detection Range Table

*The table is only for reference, the performance may vary from camera to camera.*

### Smart functions Range

Different targets trigger the VCA events within different range limits.

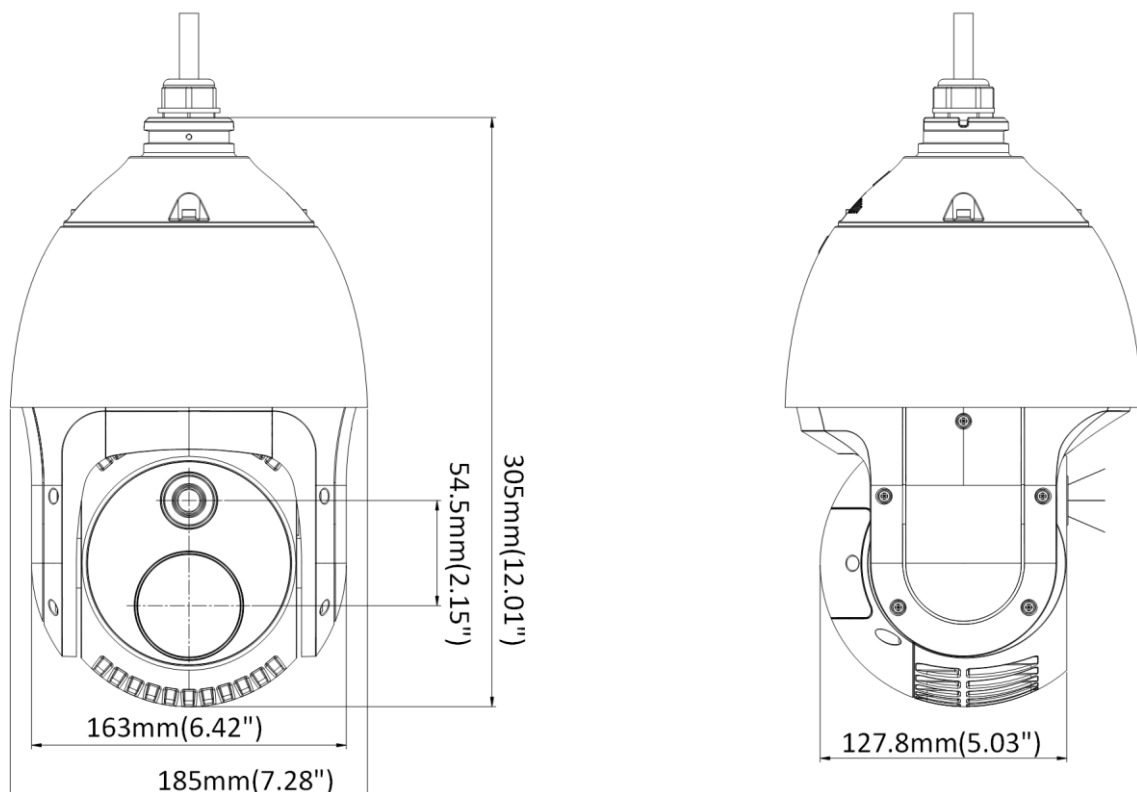| VCA Range (Vehicles: 1.4×4.0m) | VCA Range (Humans: 1.8×0.5m) | Temperature Measurement (Object:2×2 m) | Temperature measurement (Object:1×1 m) | Fire Detection (Object:2×2 m) | Fire Detection (Object:1×1 m) |
|---|---|---|---|---|---|
| 750 m | 250 m | 585 m | 295 m | 1470 m | 735 m |

### Wide Range Coverage

There is range limit for detecting, recognizing, and identifying human/vehicle targets.

| Detection Range (Vehicles: 1.4×4.0m) | Detection Range (Humans: 1.8×0.5m) | Recognition Range (Vehicles: 1.4×4.0m) | Recognition Range (Humans: 1.8×0.5m) | Identification Range (Vehicles: 1.4×4.0m) | Identification Range (Humans: 1.8×0.5m) |
|---|---|---|---|---|---|
| 2255 m | 735 m | 564 m | 184 m | 282 m | 92 m |

## Available Model

DS-2TD4237-25/V2

## Dimension

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