# DS-2TD4035D-25/50
## Thermal + Optical Bi-spectrum Network Speed Dome

**HD** | **Alarm** | **SD** | **WDR** | **3D DNR**

### Smart Function (Thermal Imaging)

- Smart tracking: support panorama tracking, event tracking and multi-scene patrol tracking
- Smart detection: intrusion detection, line crossing detection, region entrance detection, region exiting detection, audio exception detection
- Smart recording: support edge recording
- Smart encoding: support low bitrate
- Smart tracking linkage: thermal and visible image

### IR Function

- High-performance IR array, up to 150m IR distance
- Smart IR
- IR intensity automatically adjusted, depending on the zoom ratio
- Built-in temperature conditioner
- 30,000 hour life-time IR LED

### Thermal Imaging Module Function

- 384x288 resolution, high sensitivity sensor, support contrast adjustment
- Support shutter adjustment in various modes

- 3D DNR, 14 pseudo colors adjustable, image detail enhancement
- Support mirror image and local output
- 24/7 long-distance surveillance; 25mm and 50mm lens optional

### Visible Light Module Function

- 30X optical zoom(4.3mm to 129mm), 16X digital zoom
- Support auto iris, auto focus, auto white balance, backlight compensation, WDR and 3D DNR
- Image enhancement (visible light): defog, high light compensation, EIS
- Region exposure and region focus
- ROI
- Support privacy mask, optional multiple regions, colors and mosaics

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## Specifications

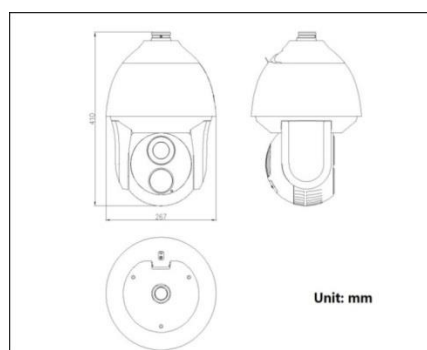| Parameter | Model | DS-2TD4035D-25, DS-2TD4035D-50 | |
|---|---|---|---|
| | | Thermal + Optical Bi-spectrum Network Speed Dome | |
| **Infrared Module** | Image sensor | Vanadium Oxide Uncooled Focal Plane Detectors | |
| | Max. Resolution | 384 × 288 | |
| | Response waveband | 8~14μm | |
| | NETD | < 50mk(@25°C,F#=1.0) | |
| | Reference Object Size | Human: 1.8*0.5m | Vehicle: 1.4*4.0m |
| | Lens (focal length) | 25mm | 50mm |
| | MRAD | 1mrad | 0.5 |
| | Detection range (Vehicles) | 1533m | 3067m |
| | Detection range (Humans) | 500m | 1000m |
| | Recognition range (Vehicles) | 383m | 767m |
| | Recognition range (Humans) | 125m | 250m |
| | Identification range (Vehicles) | 192m | 383m |
| | Identification range (Humans) | 63m | 125m |
| | Field angle | 21.7x16.4° | 11.0x8.2° |
| | F number | 1.0 | 1.0 |
| **PTZ** | Pan range | 360° endless | |
| | Pan speed | Manual Control Speed: 0.1°-160°/s<br>Preset Speed: 240°/s | |
| | Tilt range | -15°-90° (auto flip) | |
| | Tilt speed | Manual Control Speed: 0.1°-120°/s<br>Preset Speed: 200°/s | |
| | Proportional zoom | Support | |
| | Number of preset | 300 | |
| | Patrol | 8 patrols, up to 32 presets per patrol | |
| | Pattern | 4 patterns, with the recording time not less than 10 minutes per pattern | |
| | Power-off memory | Support | |
| | Park action | Preset / Patrol / Pattern /Pan scan/Tilt scan/Random scan/Frame scan/Panorama scan | |
| | PTZ position display | On / Off | |
| | Preset freezing | Support | |
| | Scheduled task | Preset / Patrol / Pattern /Pan scan/Tilt scan/Random scan/Frame scan/Panorama scan/Dome reboot /Dome adjust /Aux output | |
| **Infrared** | IR distance | 150m | |
| | IR intensity | Automatically adjusted, depending on the zoom ratio | |
| **Network** | Max. image resolution | 1920×1080 (visible light), 384×288(infrared) | |
| | Main stream | 50Hz:25fps(1920×1080), 25fps(1280×960), 25fps(1280×720) (visible light)<br>60Hz:30fps(1920×1080), 30fps(1280×960), 30fps(1280×720) (visible light)<br>50Hz:25fps(384×288) (thermal) | |
| | Sub stream | 50Hz:25fps(704×576), 25fps(352×288), 25fps(176×144)<br>60Hz:30fps(704×480), 30fps(352×240), 30fps(176×120)<br>50Hz:25fps(384×288) (thermal) | |
| | Video compression | H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High Profile | |
| | Audio compression | G .711u/G.711a/G.722.1/MP2L2/G726/ PCM | |
| | Protocols | IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP,RTP,TCP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour | |
| | Simultaneous live view | Up to 20 | |
| | 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 | 7 inputs (0-5vDC) | |
| | Alarm output | 2 relay outputs, alarm response actions configurable | |
| | Alarm action | Preset/Patrol/Pattern/SD recording/Relay output/Smart capture/FTP upload/Email linkage | |
| | Audio input | 1 Mic in/Line in interface. Line input: 2-2.4V[p-p], output impedance:1KΩ±10% | |
| | Audio output | Line level, impedance: 600Ω | |
| | Ethernet | 1 RJ45 10M/100M Self-adaptive Ethernet interface | |

| | Memory card | Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 64G), support manual/alarm recording |
|---|---|---|
| | Analog video output | 1.0V[p-p] / 75Ω, PAL(or NTSC), BNC |
| | RS485 protocols | Half-duplex; HIKVISION, PELCO-P, PELCO-D, self-adaptive |
| | Application programming | Open-ended API, support ONVIF, PSIA, CGI, HIKVISION SDK and third-party management platform |
| | Client | iVMS-4200 |
| | Web browser | IE7+, Chrome18+, Firefox5.0+, Safari5.02+ |
| General | Menu language | English |
| | Power | AC24V, 60W max |
| | Working temperature Humidity | 24 VAC: -40 ℃-60℃(-40℉-140℉), 90% or less |
| | Protection level | IP66<br>TVS 6000V Lightning protection, surge protection, voltage transient protection |
| | Mount option | Various options |
| | Dimensions | Φ266.6(mm)×365.2(mm) |
| | Weight | 8kg |

## Available Model

DS-2TD4035D-25

DS-2TD4035D-50

## Dimensions



Unit: mm

## Accessories



DS-1602ZJ Long-arm wall mount

DS-1602ZJ-Pole mount

DS-1602ZJ-Corner mount

DS-1602ZJ-Box Power box mount