

## DS-2TD4237-10/V2

### Thermal & Optical Bi-spectrum Network Speed Dome

DeepinView<sup>series</sup>



Hikvision DS-2TD4237-10/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 mainly applied to perimeter defense and fire-prevention. For perimeter defense purpose, it used in critical infrastructures such as: construction site, national park, airport, farm, prison, power station, 4S stores, and so on. For fire-prevention purpose, it used in recycling center, gas station, large warehouse, chemical plant 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 < 40mk (@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 resolution (the resolution of output image is 1280 × 720), high sensitivity sensor, support contrast adjustment
- Support shutter adjustment in various modes
- 3D DNR, 15 palettes of color adjustable, image detail enhancement



## Specifications

| Thermal Module               |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Image Sensor                 | Vanadium Oxide Uncooled Focal Plane Arrays                                                           |
| Max. Resolution              | 384 × 288 (the resolution of output image is 1280 × 720)                                             |
| Pixel Interval               | 17 μm                                                                                                |
| Response Waveband            | 8 μm to 14 μm                                                                                        |
| NETD                         | less than 40mk (@25°C, F#=1.0)                                                                       |
| Lens (focal length)          | 10mm                                                                                                 |
| IFOV                         | 1.70mrad                                                                                             |
| Field of View                | 37.7° × 28.7° (H × V)                                                                                |
| Min. Focusing Distance       | 1.2m                                                                                                 |
| Aperture                     | F 1.0                                                                                                |
| Optical Camera               |                                                                                                      |
| Image Sensor                 | 1/2.8" Progressive Scan CMOS                                                                         |
| Max. Resolution              | 1920 × 1080                                                                                          |
| Min. Illumination            | Color: 0.05 lux @ (F1.2 , AGC On )<br>B/W : 0.01 lux @ (F1.2 , AGC On )                              |
| 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                          | 120dB                                                                                                |
| 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°                                                 |
| Pan Speed                    | TBD                                                                                                  |
| Tilt Speed                   | TBD                                                                                                  |
| 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                                                                                              |
| <b>Infrared</b>           |                                                                                                                                                                                                                          |
| IR Distance               | Up to 100m                                                                                                                                                                                                               |
| IR Intensity and Angle    | Auto Adjust                                                                                                                                                                                                              |
| <b>Network</b>            |                                                                                                                                                                                                                          |
| Main Stream               | Optical: 50Hz:25fps(1920×1080), 25fps(1280×960), 25fps(1280×720)<br>Optical: 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                | Optical: 50Hz:25fps (704 × 576), 25fps (352 × 288)<br>Optical: 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                                                                                                 |
| <b>Integration</b>        |                                                                                                                                                                                                                          |
| Alarm Input               | Up to 7-ch Input (0-5V DC)                                                                                                                                                                                               |
| Alarm Output              | Up to 2-ch Relay Output; 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; Support HIKVISION SDK and Third-party Management Platform                                                                                                                                 |
| Client                    | iVMS-4200                                                                                                                                                                                                                |
| Web Browser               | IE 9+, Chrome 31- chrome 44, Firefox 30- Firefox 51, Safari 5.02+(Mac)                                                                                                                                                   |
| <b>General</b>            |                                                                                                                                                                                                                          |
| Menu Language             | English                                                                                                                                                                                                                  |
| Power                     | AC 24V±25%                                                                                                                                                                                                               |
| Power Consumption         | TBD                                                                                                                                                                                                                      |
| Work Temperature/Humidity | From -30°C to 60°C (-40°F to 140°F); Humidity: 90% or Less                                                                                                                                                               |
| Protection Level          | IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection                                                                                                                         |
| Dimensions                | 305 mm × 185 mm × 163 mm (12.01" × 7.28" × 6.42")                                                                                                                                                                        |
| Weight                    | TBD                                                                                                                                                                                                                      |

## 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<br>(Vehicles:<br>1.4×4.0m) | VCA Range<br>(Humans:<br>1.8×0.5m) | Temperature<br>Measurement<br>(Object:2×2 m) | Temperature<br>measurement<br>(Object:1×1 m) | Fire Detection<br>(Object:2×2 m) | Fire Detection<br>(Object:1×1 m) |
|--------------------------------------|------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------|----------------------------------|
| 300m                                 | 100m                               | 234m                                         | 118m                                         | 588m                             | 294m                             |

## Wide Range Coverage

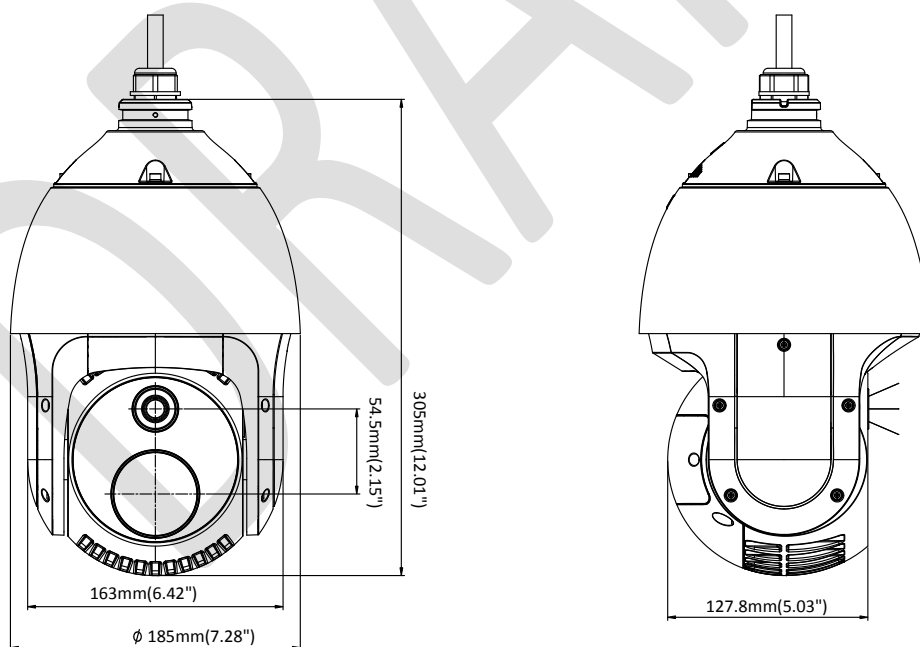
There is range limit for detecting, recognizing, and identifying human/vehicle targets.

| Detection Range<br>(Vehicles:<br>1.4×4.0m) | Detection<br>Range<br>(Humans:<br>1.8×0.5m) | Recognition<br>Range<br>(Vehicles:<br>1.4×4.0m) | Recognition<br>Range<br>(Humans:<br>1.8×0.5m) | Identification<br>Range<br>(Vehicles:<br>1.4×4.0m) | Identification<br>Range<br>(Humans:<br>1.8×0.5m) |
|--------------------------------------------|---------------------------------------------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------------|--------------------------------------------------|
| 902m                                       | 294m                                        | 225m                                            | 74m                                           | 113m                                               | 37m                                              |

## Available Model

DS-2TD4237-10/V2

## Dimension



Distributed by



## HIKVISION®

### Headquarters

No.555 Qianmo Road, Binjiang District,  
Hangzhou 310051, China  
T +86-571-8807-5998  
overseasbusiness@hikvision.com

**Hikvision USA**  
T +1-909-895-0400  
sales.usa@hikvision.com

**Hikvision Australia**  
T +61-2-8589-4233  
salesau@hikvision.com

**Hikvision India**  
T +91-22-28469900  
sales@pramahikvision.com

**Hikvision Canada**  
T +1-866-200-6690  
sales.canada@hikvision.com

**Hikvision Thailand**  
T +662-275-9949  
sales.thailand@hikvision.com

**Hikvision Europe**  
T +31-23-5542770  
sales.eu@hikvision.com

**Hikvision Italy**  
T +39-0438-6902  
info.it@hikvision.com

**Hikvision Brazil**  
T +55 11 3318-0050  
Latam.support@hikvision.com

**Hikvision Turkey**  
T +90 (216)521 7070- 7074  
sales.tr@hikvision.com

**Hikvision Malaysia**  
T +601-7652-2413  
sales.my@hikvision.com

**Hikvision UK & Ireland**  
T +01628-902140  
sales.uk@hikvision.com

**Hikvision South Africa**  
Tel: +27 (10) 0351172  
sale.africa@hikvision.com

**Hikvision France**  
T +33(0)1-85-330-450  
info.fr@hikvision.com

**Hikvision Kazakhstan**  
T +7-727-9730667  
nikia.panfilov@hikvision.ru

**Hikvision Vietnam**  
T +84-974270888  
sales.vt@hikvision.com

**Hikvision UAE**  
T +971-4-4432090  
salesme@hikvision.com

**Hikvision Singapore**  
T +65-6684-4718  
sg@hikvision.com

**Hikvision Spain**  
T +34-91-737-16-55  
info.es@hikvision.com

**Hikvision Tashkent**  
T +99-87-1238-9438  
uzb@hikvision.ru

**Hikvision Hong Kong**  
T +852-2151-1761  
info.hk@hikvision.com

**Hikvision Russia**  
T +7-495-669-67-99  
saleru@hikvision.com

**Hikvision Korea**  
T +82-(0)31-731-8817  
sales.korea@hikvision.com

**Hikvision Poland**  
T +48-22-460-01-50  
info.pl@hikvision.com

**Hikvision Indonesia**  
T +62-21-2933759  
Sales.Indonesia@hikvision.com

**Hikvision Colombia**  
sales.colombia@hikvision.com