

DS-2TD8167-230ZG2FL/W **Thermal & Optical Bi-spectrum Network Stable PTZ**



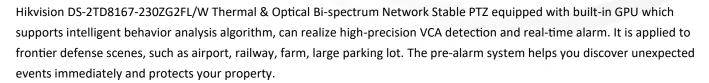












Key Feature

- Behavior analysis function, based on deep learning algorithm: line crossing, intrusion, region entrance & exit
- Temperature exception alarm for fire prevention
- Fire detection algorithm
- 640×512 resolution 17 µm, VOx UFPA, NETD \leq 35 mK (25 °C, F# = 1.1)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR





Specification

| Thermal Module | | | | | | |
|---|--|--|--|--|--|--|
| Image Sensor | Vanadium Oxide Uncooled Focal Plane Arrays | | | | | |
| Resolution | 640 × 512 | | | | | |
| Pixel Interval | 17 μm | | | | | |
| Response Waveband | 8 μm to 14 μm | | | | | |
| NETD (Noise Equivalent Temperature Difference) | ≤ 35 mK (25 °C, F# = 1.1) | | | | | |
| Focal Length | 23 to 230 mm | | | | | |
| IFOV | 0.74 to 0.07 mrad | | | | | |
| Field of View | 26.61° × 21.43° (H × V) to: 2.83° × 2.27° (H × V) | | | | | |
| Min. Focusing Distance | 2 m | | | | | |
| Aperture | F0.9 to F1.5 | | | | | |
| Focus Mode | Semi-auto, manual | | | | | |
| Digital Zoom | ×2, ×4, ×8 | | | | | |
| Optical Module | | | | | | |
| Image Sensor | 1/1.8" Progressive Scan CMOS | | | | | |
| Resolution | 1920 × 1080 | | | | | |
| Min. Illumination | Color: 0.005 Lux @ (F3.5, AGC ON), B/W: 0.0005 Lux @ (F3.5, AGC ON) | | | | | |
| Shutter Speed | 1s to 1/30,000s | | | | | |
| Focal Length | 16.7 to 1000 mm | | | | | |
| Field of View | 24.33° × 13.83° (H × V) to 0.41°× 0.23° (H × V) | | | | | |
| Aperture Range | F3.5 to F8.8 | | | | | |
| 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 | Yes. Supported in white hot and black hot mode. | | | | | |
| PTZ | | | | | | |
| Movement Range | Pan: 360° Continuous Rotate; Tilt: From -45° to + 45° (auto flip) | | | | | |
| Pan Speed | Configurable, From 0.01°/s to 40°/s | | | | | |
| Tilt Speed | Configurable, From 0.01°/s to 20°/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 | | | | | |



| | Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame | | | | |
|---|---|--|--|--|--|
| Scheduled Task | Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux Output | | | | |
| | | | | | |
| Illuminator | | | | | |
| IR Distance | Up to 3000 m | | | | |
| IR Intensity and Angle | Automatically adjusted | | | | |
| Smart Function | | | | | |
| VCA (Video Content Analysis) | 4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), 10 | | | | |
| VCA (Video Content Analysis) | scenes and 8 VCA rules for each scene. | | | | |
| Tomporature Measurement | 3 temperature measurement rule types, 273 presets as scene, 21 rules of each scene | | | | |
| Temperature Measurement | (10 points, 10 areas, and 1 line) | | | | |
| Temperature Range | -20 °C to 150 °C (-4 °F to 302 °F) | | | | |
| Temperature Accuracy | mperature Accuracy ± 8 °C (14.4 °F) | | | | |
| Fire Detection Dynamic fire detection, up to 10 fire points detectable. | | | | | |
| Video & Audio | | | | | |
| | Optical channel | | | | |
| Main Stream | 50 Hz:25 fps (1920 × 1080, 1280 × 960, 1280 × 720) | | | | |
| | 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720) | | | | |
| Wall Stream | Thermal channel | | | | |
| | 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 384 × 288) | | | | |
| | Optical channel | | | | |
| | 50 Hz:25 fps (704 × 576, 352 × 288) | | | | |
| Sub-stream | 60 Hz: 30 fps (704 × 576, 352 × 288) | | | | |
| | Thermal channel | | | | |
| | 25 fps (704 × 576, 640 × 480, 384 × 288) | | | | |
| | Main stream: H.265+/H.265/H.264+/ H.264 | | | | |
| Video Compression | Sub-stream: H.265/H.264/MJPEG | | | | |
| Audio Compression | G.711u/G.711a/G.722.1/MP2L2/G.726/PCM | | | | |
| Network | | | | | |
| | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, | | | | |
| Protocols | 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) | | | | |
| | ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profile G, | | | | |
| API | Profile T) | | | | |
| Simultaneous Live View | Up to 20 channels | | | | |
| User/Host Level | Up to 32 users. 3 levels: administrator, operator, user | | | | |
| Consider | User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE | | | | |
| Security | 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering | | | | |
| Client | iVMS-4200, Hik-Connect | | | | |
| | Live view (plug-in allowed) : Internet Explorer 11 | | | | |
| Web Browser | Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 + | | | | |
| | Local service : Chrome 57.0+, Firefox 52.0 + | | | | |



| Interface | | | | | |
|------------------------------|---|--|--|--|--|
| Alarm Input | 7-ch inputs (0-5 VDC) | | | | |
| Alarm Output | 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, 3.5 mm Mic in/Line in interface. Line input: 2-2.4 V [p-p], output impedance: 1 K Ω ± 10% | | | | |
| Audio Output | Linear level, impedance: $600~\Omega$ | | | | |
| Communication Interface | RJ45 10M/100M self-adaptive Ethernet interface. RS-485 interface | | | | |
| Analog Video Output | 1.0 V [p-p]/75 Ω,BNC for thermal channel | | | | |
| 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 | 48 VDC ± 20%, two-core terminal block | | | | |
| Power Consumption | 48 VDC, 5 A, max. 220 W | | | | |
| Working Temperature/Humidity | -40 °C to 65 °C (-40 °F to 149 °F) 95% or less | | | | |
| Wiper | Yes | | | | |
| Protection Level | IP67 Standard TVS 6000V lightning protection, surge protection, voltage transient protection | | | | |
| Dimension | 543 mm × 674.2 mm × 665.1 mm (21.4 " × 26.5" × 26.2 ") | | | | |
| Weight | Approx. 60kg (132.3 lb) | | | | |



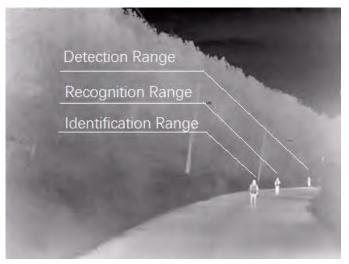
DRI Range Table

- * The table is only for reference and the performance may vary according to different environment.
- * The optimal human detection, recognition, and identification distances are calculated according to Johnson's Criteria.

 Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels.

Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels.

Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.



| Detection Range (Vehicles: 1.4 × 4.0 m) | Detection Range (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) |
|---|---|---|---|--|--|
| 4.0 111) | U.5 III) | 1.4 ^ 4.0 111) | 1.0 ^ 0.3 111) | 1.4 ^ 4.0 111) | 1.0 ^ 0.3 111) |
| 20745 m | 6765 m | 5186 m | 1691 m | 2593 m | 846 m |

Smart Function Table

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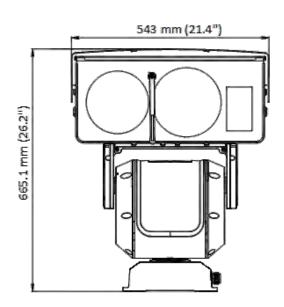
| VCA Range (Vehicles: 1.4 × 4.0 m) | VCA Range (Humans: 1.8 × 0.5 m) | Temperature Measurement (Object: 2 × 2 m) | Temperature Measurement (Object: 1 × 1 m) | Fire Detection (Object: 2 × 2 m) | Fire Detection (Object: 1 × 1 m) |
|---|---------------------------------------|---|---|-------------------------------------|-------------------------------------|
| 4735 m | 1691 m | 5382 m | 2714 m | 13524 m | 6762 m |

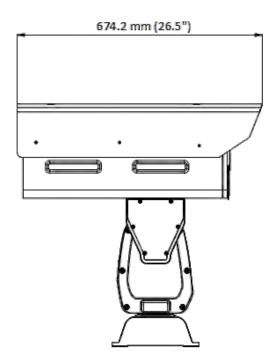
Available Model

DS-2TD8167-230ZG2FL/W



Dimension





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