

DS-2TD8166-150ZE2F/V2

Thermal & Optical Bi-spectrum Network Stable PTZ Camera

DeepinView















Hikvision DS-2TD8166-150ZE2F/V2 Thermal & Optical Bi-spectrum Network Stable PTZ Camera equipped with built-in GPU which support intelligent perimeter protection algorithm, can realize high precision VCA detection and real-time alarm. It is applied to frontier protection occasions, maritime protection occasions, port monitoring, airport perimeter security, 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 perimeter protection algorithm: Line crossing, Intrusion, Region Entrance & Exit
- Reliable temperature exception alarm function
- Advanced fire detection algorithm

Thermal Imaging Module Function

- 640*512 resolution, high sensitivity sensor, support contrast adjustment
- Support shutter adjustment in various modes
- 3D DNR, 15 palettes of color adjustable, image detail enhancement





Specifications



| Model Parameter | | DS-2TD8166-150ZE2F/V2 | | | | | |
|-------------------|-------------------------------|---|--|--|--|--|--|
| | | Thermal & Optical Bi-spectrum Network Stable PTZ Camera | | | | | |
| Thermal module | Image sensor | Vanadium Oxide Uncooled Focal Plane Arrays | | | | | |
| | Max. Resolution | 640 × 512 | | | | | |
| | Detector Pitch | 17μm | | | | | |
| | Response waveband | 8μm to 14μm | | | | | |
| | NETD | < 40mk(@25°C,F#=1.0) | | | | | |
| | Lens (focal length) | 30 mm to 150 mm | | | | | |
| | MRAD | 0.57 to 0.11 mrad | | | | | |
| | Field of View | WIDE:20.56° x 16.51°; TELE:4.15° x 3.32° | | | | | |
| | Min. Focusing | 2 m | | | | | |
| | Distance | | | | | | |
| | F number | 1.2 | | | | | |
| | Image Sensor | 1/1.8 "Progressive Scan CMOS Color: 0.005 Lux @ (F3.5, AGC ON) | | | | | |
| | Min. Illumination | B/W: 0.0005 Lux @ (F3.5, AGC ON) | | | | | |
| | Focal Length | 12.5-775 mm, 62 x | | | | | |
| | Field of View | 20.56 ° × 4.15 ° to 16.51 ° × 3.32 ° (Wide-Tele) | | | | | |
| | Min. Working Distance | 5 m (Wide-Tele) | | | | | |
| | Aperture Range | F3.5 to Close | | | | | |
| Optical camera | Focus Mode | Auto / Semiautomatic / Manual | | | | | |
| | WDR | Digital | | | | | |
| | Shutter Time | PAL: 1-1/30,000s / NTSC: 1-1/30,000s | | | | | |
| | White Balance | Auto/ Manual/ATW/Indoor/Outdoor/Daylight lamp/Sodium lamp | | | | | |
| | Day & Night | IR Cut Filter | | | | | |
| | Privacy Mask | 24 privacy masks programmable; optional multiple colors and mosaics | | | | | |
| | Optical Defog | Yes | | | | | |
| | Enhancement | 3D DNR | | | | | |
| | VCA | Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), 10 scenes and 8 VCA | | | | | |
| | Temperature | rules for each scene. Support 3 temperature measurement rule types, 273 presets as scene, 21 rules of each scene (10 points, 10 areas.) | | | | | |
| Smart | Measurement | and 1 line) | | | | | |
| function | Temperature range Temperature | -20 °C to 150 °C (-4 °C to 302 °F) | | | | | |
| | accuracy | ±8°C (14.4°F) | | | | | |
| | Fire detection | Support 10 fire points | | | | | |
| | Movement Range | Pan: 360° Continuous Rotate; Tilt: From -45 ° to + 45 ° (auto flip) | | | | | |
| | Pan Speed | Configurable, From 0.01 % to 40% | | | | | |
| | Tilt Speed | Configurable, From 0.01 % to 20 % | | | | | |
| | Proportional Zoom | Yes | | | | | |
| | Presets | 300 | | | | | |
| PTZ | 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 | | | | | |
| Network | Main Stream | Optical Light: 50Hz:25fps(1920×1080), 25fps(1280×960), 25fps(1280×720) Optical Light: 60Hz:30fps(1920×1080), 30fps(1280×960), 30fps(1280×720) Thermal: 50fps (640 × 512) | | | | | |
| | Sub stream | 50Hz:25fps (704×576), 25fps (352×288), 25fps (176×144) 60Hz:30fps (704×480), 30fps (352×240), 30fps (176×120) Thermal: 50fps (640×512) | | | | | |
| | Video compression | H.265+/ H.264+/H.265/H.264/MJPEG, H.264 encoding with Baseline/Main/High Profile | | | | | |
| | Audio compression | G .711u/G.711a/G.722.1/MP2L2/G.726/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-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 | | | |
| Integrati on | Alarm Input | Up to 7-ch Relay Input (0-5V DC) | | | |
| | Alarm Output | Up to 2-ch; Support Alarm Linkage | | | |
| | Alarm Action | Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage | | | |
| | Audio Input | LINE_IN Input/MIC Input; Peak: From 2 to 2.4V[p-p]; Output Impedance: 1KΩ±10% | | | |
| | Audio Output | Linear Level; Impedance: 600Ω | | | |
| | Communication Interface | Built-in RJ45; 10M/100M Ethernet Interface | | | |
| | Onboard Storage | Built-in 64GB SD Card; Support Manual/Alarm Recording | | | |
| | Analog Video Output | 1.0V [p-p]/75Ω, PAL/NTSC/BNC | | | |
| | RS485 | Half-Duplex; HIKVISION, PELCO-P and PELCO-D Self-adaptive | | | |
| | API | Open-ended API, support ISAPI; Support HIKVISION SDK and Third-party Management Platform | | | |
| | Client | iVMS-4200 | | | |
| | Web Browser | IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+; Multiple Languages | | | |
| General | Menu | English | | | |
| | Wiper | Yes | | | |
| | Power | 48V DC/5A, 220W | | | |
| | Work Temperature/Humi dity | From -40°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 | | | |
| | Dimension | 649.2 mm × 438 mm × 261.3 mm (25.56 '' × 17.24 '' × 10.29 '') | | | |
| | Weight | Approx. 60kg (132.3 lb) | | | |

Wide Range Coverage for Different Specifications

Note: The table below is only for reference, the performance varies from model to model, and the specific data is based on $17 \, \mu m$ detector pitch.

| Detection | Detection | Recognition | Recognition | Identification | Identification |
|------------|-----------|-------------|-------------|----------------|----------------|
| Range | Range | Range | Range | Range | Range |
| (Vehicles: | (Humans: | (Vehicles: | (Humans: | (Vehicles: | (Humans: |
| 1.4×4.0m) | 1.8×0.5m) | 1.4×4.0m) | 1.8×0.5m) | 1.4×4.0m) | 1.8×0.5m) |
| 13529 m | 4412 m | 3382 m | 1103 m | 1691 m | 551 m |



Smart functions Range Table

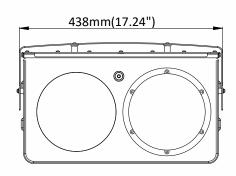
Note: The table below is only for reference, the performance varies from model to model, and the specific data is based on 17 µm detector pitch.

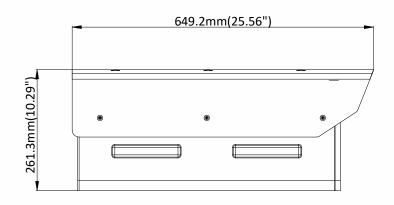
| VCA Range (Vehicles: | VCA Range (Humans: | Temperature Measurement | Temperature measurement | Fire Detection (Object:2×2 m) | Fire Detection (Object:1×1 m) |
|-------------------------|-----------------------|----------------------------|-------------------------|-------------------------------|-------------------------------|
| 1.4×4.0m) | 1.8×0.5m) | (Object:2×2 m) | (Object:1×1 m) | | |
| 4500m | 1500m | 3510m | 1770m | 8820m | 4410m |

Order Models

DS-2TD8166-150ZE2F/V2

Dimensions





Distributed by

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