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**HTD4136-50**

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

 

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| Perfect View HTD4136-50 Thermal & Optical Bi-spectrum Network Speed Dome 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 < 40mk (@25° C, F#=1.0)Up to 2592 × 1944 resolution
* 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*** 384x288 resolution, high sensitivity sensor, support contrast adjustment
* Support shutter adjustment in various modes
* 3D DNR, 15 palettes of color adjustable, image detail enhancements
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**Specification**

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| **Thermal Module** |
| Image Sensor | Vanadium Oxide Uncooled Focal Plane Arrays |
| Max. Resolution | 384 x 288 |
| Detector Pitch | 17μm |
| Response Waveband | 8μm to 14μm |
| NETD | < 40mk (@25° C,F#=1.0) |
| Lens (focal length | 50mm |
| MRAD | 0.34 |
| Field of View | 7.47°x5.61° |
| Min. Focusing Distance | 7.5 m |
| F Number | 1.0 |
| **Optical Camera** |  |
| Image Sensor | 1/1.9’’ Progressive Scan CMOS |
| Min. Illumination | Color: 0.002 lux @ (F1.5 , AGC On ) B/W : 0.0002 lux @ (F1.5 , AGC On ) |
| Shutter Time | 1-1/30,000s |
| White Balance | Auto/Manual /ATW/Indoor/Outdoor/Daylight lamp/Sodium lamp |
| Focal Length | 5.7-205.2mm, 36x |
| Day & Night | IR cut filter |
| Digital Zoom | 16× |
| Privacy Mask | 24 privacy masks programmable; optional multiple colors and mosaics |
| Focus Mode | Auto/Semi-automatic/Manual |
| Field of View | 58.7° - 2.0° (Wide-Tele) |
| Optical Defog | Yes |
| Enhancement | 3D DNR |
| WDR | 120db |
| Aperture Range | F1.5-F4.5 |
| Min. Working Distance | 10-1500mm (Wide-Tele) |
| **Smart Function** |
| VCA | Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), 10 scenes and 8 VCA rules for each scene. |
| Temperature Measurement | Support 3 temperature measurement rule types, over 256 presets as scene, 21 rules of each scene (10 points, 10 regions, and 1 line) |
| Temperature Range | -20 ° C to 150 ° C (-4 ° C to 302 ° F) |
| Temperature Accuracy | ± 8 °C (14.4 ° F) |
| Fire Detection | Support 10 fire points |
| **PTZ** |
| Movement Range (Pan) | Pan: 360° Continuous Rotate; Tilt: From -15° to + 90° (auto flip) |
| Pan Speed | Configurable, From 0.1° /s to 160° /s, Preset Speed: 240° /s |
| Tilt Speed | Configurable, From 0.1° /s to 120° /s, Preset Speed: 200° /s |
| Proportional Zoom | Yes |
| Presets | 300 |
| Patrol Scan | 8 patrols, up to 32 presets for each patrol |
| Pattern Scan | 4; More Than 10 Minutes Per Pattern |
| Power-off Memory: | Yes |
| Park Action | Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan |
| PTZ Status  | Turn On/Turn Off |
| Scheduled Task | Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux Output |
| **Smart Features** |
| Basic Event Detection | Motion Detection, Video Tampering, Alarm Input, Alarm Output, Exception |
| Smart Event Detection | Audio Exception Detection, Face Detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection |
| Auto-tracking | Support |
| Smart Record | ANR (Automatic Network Replenishment), Dual-VCA |
| **Infrared** |
| IR Distance | Up to 200m |
| IR Intensity and Angle | Auto Adjust |
| **Network** |
| Main Stream | Optical: 50Hz:25fps(1920× 1080), 25fps(1280× 960), 25fps(1280× 720) Optical: 60Hz:30fps(1920× 1080), 30fps(1280× 960), 30fps(1280× 720) Thermal: 50fps(384 × 288) |
| Sub-Stream | 50Hz:25fps (704 × 576), 25fps (352 × 288), 25fps (176 × 144) 60Hz:30fps (704 × 480), 30fps (352 × 240), 30fps (176 × 120) Thermal: 50fps (384 × 288) |
| Video Compression | H.264 (Baseline/Main/High Profile) /MJPEG/MPEG4 |
| 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,I GMP,ICMP,DHCP, PPPoE, Bonjour |
| Simultaneous Live View | Up to 20 channels |
| User/Host | Up to 32 users, 3 levels: Administrator, Operator and User |
| Security Measures | User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering |
| **System Integration** |
| Alarm Input | Up to 7-ch Input (0-5V DC) |
| Alarm Output | Up to 2-ch Relay Output; Support Alarm Linkage |
| Alarm Linkage | 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 |
| Network Interface | Built-in RJ45; 10M/100M Ethernet Interface |
| Storage | Built-in Micro SD/SDHC/SDXC Card Slot, Up to 64GB; Support Manual/Alarm Recording |
| Analog Video Output | 1.0V [p-p]/75Ω, PAL/NTSC/BNC |
| RS-485 | Half-Duplex; PELCO-P and PELCO-D Self-adaptive |
| API | Open-ended, support ONVIF, ISAPI, and CGI, support Third-Party Management Platform |
| Client | CMS, Guarding Vision |
| Web Browser | IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+; Multiple Languages |
| **General** |
| Power | 24V AC, 60W |
| Working Temperature | From -40° C to 60° C (-40° F to 140°F); Humidity: 90% or Less |
| Menu | English |
| Protection Level | IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection |
| Wiper | Yes |
| Weight | Approx. 8kg (17.64 lb) |

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**Order Model**

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