

**Smart Function (Thermal Imaging)**

* **Leading image processing technology: Adaptive AGC, DDE, 3D DNR, NETD < 40mk (@25°C, F#=1.0)**
* **Powerful behavior analysis is algorithm: Line crossing, Intrusion, Region Entrance & Exit**
* **Reliable temperature exception alarm function**
* **Advanced fire detection algorithm**
* **Smart tracking: Panorama tracking, Event tracking and Multi-scene patrol tracking**
* **Smart tracking linkage: thermal view and optical view**
* **-20°C to 550°C (-4°F to 1,022°F) temperature range**
* **Max (±2°C, ±2%) temperature accuracy**
* **Support point, line, frame temperature measurement type**

**Thermal Imaging Module**

* **384x288 resolution, high sensitivity sensor, support contrast adjustment**
* **Support shutter adjustment in various modes**
* **3D DNR, 15 palettes of color adjustable, image detail enhancement**

**Key Features**

**HTD4136-25**

**2MP 36X IR Thermal & Optical Bi-Spectrum Network Speed Dome**

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| **Specifications** | |
| ***Thermal Module*** | |
| Image Sensor | Vanadium Oxide Uncooled Focal Plane Arrays |
| Max Resolution | 384x288 |
| Detector Pitch | 17µ |
| Response waveband | 8µ to 14µ |
| NETD | < 40mk (@25°C, F#=1.0) |
| Lens (focal length) | 25mm |
| Focus Mode | Auto/Semi-auto/Manual |
| MRAD | 0.68 |
| Field of View | 14.88°x11.19° |
| Minimum Focusing Distance | 1.5m |
| 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) |
| Focal Length | 5.7-205.2mm, 36x |
| Digital Zoom | 16x |
| Field of View | 58.7°-2.0°(wide-tele) |
| Min Working Distance | 10-1500mm (wide-tele) |
| Aperature Range | F1.5-F4.5 |
| Focus Mode | Auto/Semiautomatic/Manual |
| WDR | 120dB |
| Shutter Time | 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 |
| ***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 at scene, 21 rules of each scene (10 points, 10 regions, and 1 line) |
| Temperature Range | -20°C to 550°C (-4°F to 1,022°F) |
| Temperature Accuracy | Max (±2°C, ±2%) |
| Fire Detection | Support 10 fire points |
| ***PTZ*** | |
| Movement Range | Pan: 360° Continuous Rorate; 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; 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 |
| ***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,IG MP,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 80x.1x access control, IP address filtering |
| ***Integration*** |  |
| Alarm Input | Up to 7-ch Input (0-5V DC) |
| Alarm Output | Up to 2-ch Relay Output ; 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/1100M Ethernet Interface |
| Onboard 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 |
| RS485 | Half-Duplex; Pelco-P and Pelco-D Self-adaptive |
| API | Open-ended API, Support ISAPI; Support SDK and Third-Party Management Platform |
| Client | CMS/Guarding Vision Mobile App |
| Web Browser | IE 7+, Chrome, Firefox, Safari; Multiple Languages |
| ***General*** | |
| Menu | English |
| Wiper | Yes |
| Operating Conditions | -40 °C to +60 °C (-40 °F to +140 °F), Humidity 90% or less |
| Power | 24V AC, 60W |
| IR Range | Up to 8 m |
| Protection Level | IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection |
| Weight | Approx. 8kg (17.64 lb) |

**Available Models:**

HTD4136-25





