

HTD4136-25

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



Key Features

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

Specifications

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Max Resolution	384x288
Detector Pitch	17 μ
Response waveband	8 μ to 14 μ
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 ($\pm 2^{\circ}\text{C}$, $\pm 2\%$)
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,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 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

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 µm detector-pitch.

Lens (focal length)	9mm	10mm	15mm	25mm	35mm	50mm	75mm
Detection range (Vehicles)	812m	902m	1353m	2255m	3157m	4510m	6765m
Detection range (Humans)	265m	294m	441m	735m	1029m	1471m	2206m
Recognition range (Vehicles)	203m	225m	338m	564m	789m	1127m	1691m
Recognition range (Humans)	66m	74m	110m	184m	257m	368m	551m
Identification range (Vehicles)	101m	113m	169m	282m	395m	564m	846m
Identification range (Humans)	33m	37m	55m	92m	129m	184m	276m

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.

Lens (focal length)	9mm	10mm	15mm	25mm	35mm	50mm	75mm
VCA range (humans)	65m	72m	110m	183m	255m	360m	540m
VCA range (Vehicles)	184m	205m	308m	514m	720m	1029m	1544m
Temperature measurement (Object: 2×2 m)	210m	234m	351m	585m	819m	1170m	1775m
Temperature measurement ((Object: 1×1 m)	105m	118m	177m	295m	413m	590m	885m
Fire Detection (Object: 2×2 m)	528m	588m	882m	1470m	2058m	2940m	4410m
Fire Detection (Object: 1×1 m)	264m	294m	441m	735m	1029m	1470m	2205m

Dimensions

