

DS-2TD6236-50H2L/V2

Thermal and Optical Bi-Spectrum Network Positioning System

DeepinView



The Hikvision DS-2TD6236-50H2L/V2 Thermal and Optical Bi-Spectrum Network Positioning System is equipped with a built-in GPU, which supports intelligent behavior analysis algorithm, can realize high precision VCA detection and real-time alarm. It is applied to frontier defense occasions, maritime defense 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 Functions

- Adaptive AGC, DDE, 3D DNR, NETD < 40mk (@ 25° C, F#=1.0)
- Smart Tracking: Panorama, Event, and Multi-Scene Patrol
- Smart Tracking Linkage: Thermal and Optical View:
- Line Crossing, Intrusion, Region Entrance/Exit
- Temperature Exception Alarm
- Advanced Fire Detection

Available Models

DS-2TD6236-50H2L/V2

Thermal Imaging Module Function

- 384*288 Resolution, High Sensitivity Sensor
- Contrast Adjustment
- Shutter Adjustment in Various Modes
- 3D DNR, 15 Adjustable Color Palettes, Image Detail Enhancement



Specifications

DS-2TD6236-50H2L/V2	
Thermal Module	
Image Sensor	Vanadium oxide uncooled focal plane arrays
Maximum Resolution	384 × 288
Detector Pitch	17 μm
Response Waveband	8 μm to 14 μm
NETD	<40 mk (@ 25° C, F#=1.0)
Lens (Focal Length)	50 mm
MRAD	0.34 mrad
Field of View	7.47° × 5.61°
Minimum Focusing Distance	24.6 ft (7.5 m)
f/ Number	1.0
Optical Camera	
Image Sensor	1/1.9" progressive scan CMOS
Minimum Illumination	Color: 0.002 lux @ (f/1.5, AGC on); B/W : 0.0002 lux @ (f/1.5 , AGC on)
Focal Length	5.7–205.2 mm, 36x
Digital Zoom	16x
Field of View	58.7°–2.0° (wide-tele)
Minimum Working Distance	10–1500 mm (wide-tele)
Aperture Range	f/1.5–f/4.5
Focus Mode	Auto/semiautomatic/manual
WDR	120 dB
Shutter Speed	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 Functions	
VCA	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), 10 scenes and 8 VCA rules for each scene.
Temperature Measurement	3 temperature measurement rule types, 273 presets as scene, 21 rules of each scene (10 points, 10 areas, and 1 line)
Temperature Range	-4° to 302° F (-20° to 150° C)
Temperature Accuracy	±14.4° F (±8° C)
Fire Detection	Supports 10 fire points
PTZ	
Movement Range	Pan: 360° continuous rotate; tilt: from -90° to + 40° (auto flip)
Pan Speed	Configurable, from 0.1°/s to 110°/s
Tilt Speed	Configurable, from 0.1°/s to 50°/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	Supported
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/dome reboot/dome ad-just/aux output
Infrared	
IR Distance	Up to 1640 ft (500 m)
IR Intensity and Angle	Auto adjust
Network	
Main Stream	Optical light: 60 Hz: 30 fps (1920 × 1080), 30 fps (1280 × 960), 30 fps (1280 × 720); Thermal: 50 fps (384 × 288)
Sub Stream	60 Hz: 30 fps (704 × 480), 30 fps (352 × 240), 30 fps (176 × 120); Thermal: 50 fps (384 × 288)
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
Integration	
Alarm Input	Up to 7-ch relay input (0–5 VDC)
Alarm Output	Up to 2-ch; supports alarm linkage
Alarm Action	Preset/patrol scan/pattern scan/SD card record/relay output/smart capture/FTP upload/e-mail linkage
Audio Input	LINE_IN Input/MIC input; peak: from 2 to 2.4V [p-p]; output impedance: 1K Ω ±10%
Audio Output	Linear level; impedance: 600 Ω
Communication Interface	Built-in RJ-45; 10M/100M Ethernet interface
Onboard Storage	Built-in microSD/SDHC/SDXC card slot, up to 128 GB; supports manual/alarm recording
Analog Video Output	1.0V [p-p]/75 Ω, PAL/NTSC/BNC
RS-485	Half-duplex; HIKVISION, PELCO-P and PELCO-D self-adaptive
API	Open-ended API, supports ISAPI; supports 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	24 VAC, 120 W
Work Temperature/Humidity	-40° to 140°F (-40° to 60° C); humidity: 90% or less (non-condensing)
Protection Level	IP66 standard; TVS 6000V lightning protection, surge protection, and voltage transient protection
Dimensions	19.14" × 13.84" × 17.73" (486.1 mm × 351.6 mm × 450.3 mm)
Weight	Approximately 41.89 lb (19 kg)

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.

Detection Range (Vehicles: 1.4×4.0m)	Detection Range (Humans: 1.8×0.5m)	Recognition Range (Vehicles: 1.4×4.0m)	Recognition Range (Humans: 1.8×0.5m)	Identification Range (Vehicles: 1.4×4.0m)	Identification Range (Humans: 1.8×0.5m)
4510 m	1471 m	1127 m	368 m	564 m	184 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: 1.4×4.0m)	VCA Range (Humans: 1.8×0.5m)	Temperature Measurement (Object:2×2 m)	Temperature measurement (Object:1×1 m)	Fire Detection (Object:2×2 m)	Fire Detection (Object:1×1 m)
1500 m	500 m	1170 m	590 m	2940 m	1470 m

Dimensions

