DS-2TD4237-10/V2
Thermal & Optical Bi-spectrum Network Speed Dome

Deepin View series

Hikvision DS-2TD4237-10/V2 Thermal & Optical Bi-spectrum Network Speed Dome equipped with built-in GPU which support intelligent behavior analysis algorithm, can realize high precision VCA detection and real-time alarm. It 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 less than 40 mK (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 behavior analysis algorithm: Line crossing, Intrusion, Region Entrance & Exit
● Reliable temperature exception alarm function
● Advanced fire detection algorithm

Thermal Imaging Module Function

● 384 × 288 (the resolution of output image is 1280 × 720) resolution sensor, high sensitivity sensor, support contrast adjustment
● Shutter adjustment in various modes
● 3D DNR, 15 palettes of color adjustable, image detail enhancement

Specification

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Max. Resolution	384 × 288 (the resolution of output image is 1280 × 720)
Pixel Interval	17μm
Response Waveband	8μm to 14μm
NETD	less than 40 mK (25°C), F#=1.0
Lens (Focal Length)	10 mm
IFOV	1.70 mrad
Field of View	37.7° × 28.7° (H × V) (H × V)
Min. Focusing Distance	1.2 m
Aperture	F1.0

Optical Module	
Image Sensor	1/2.8" Progressive Scan CMOS
Max. Image Resolution	1920 × 1080
Min. Illumination	Color: 0.05 Lux @(F1.2,AGC ON), B/W: 0.01 Lux @(F1.2, AGC ON)
Lens (Focal Length)	4.8-153mm
Field of View	horizontal FOV 58.4° to 2.14°, vertical FOV 33.8° to 1.2°, diagonal FOV 65.6° to 2.46°
Aperture Range	F1.2-F4.4
Focus Mode	Auto / Semiautomatic / Manual
WDR	120 dB
Shutter Speed	1s to 1/100,000s
Day & Night	IR cut filter

Smart Function	
VCA (Video Content Analysis)	4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules.
Temperature Measurement	3 temperature measurement rule types, 21 rules (10 points, 10 areas, and 1 line).
Temperature Range	-20 °C to +150 °C (-4 °F to +302°F)
Temperature Accuracy	± 8 °C (± 14.4 °F)
Fire detection	Dynamic fire point detection, up to 10 fire points detectable.

PTZ	
Movement Range	Pan: 360° Continuous Rotate; Tilt: From -5° to + 90° (auto flip)
Pan Speed	0.1°/s to 200°/s
Tilt Speed	0.1°/s to 105°/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 100 m
IR Intensity and Angle	Auto Adjust
Network	
Main Stream	Visible Light: 50Hz: 25fps (1920 × 1080), 25fps (1280 × 960), 25fps (1280 × 720) Visible Light: 60Hz: 30fps (1920 × 1080), 30fps (1280 × 960), 30fps (1280 × 720) Thermal: 25fps(1280 × 720), 25fps(704 × 546), 25fps(384 × 288), 25fps(352 × 288)
Sub Stream	Visible Light: 50Hz: 25fps (704 × 576), 25fps (352 × 288) Visible Light: 60Hz: 30fps (704 × 480), 30fps (352 × 288) Thermal: 25fps(704 × 546), 25fps(384 × 288), 25fps(352 × 288)
Video Compression	H.265 (Main Profile) H.264 (Baseline/Main/High Profile)
Audio Compression	G .711u/G.711a/G.722.1/MP2L2/G.726/PCM
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, 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 inputs (0-5V DC)
Alarm Output	Up to 2-ch relay outputs, alarm response actions configurable
Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage
Audio Input	1 3.5mm Mic in/Line in interface. Line input: 2-2.4V[p-p], output impedance:1KΩ±10%
Audio Output	Linear Level; Impedance: 600Ω
Reset	1 Reset Button
Ethernet	1 RJ45 10M/100M Self-adaptive Ethernet interface, 1 RS-485 interface
SD Memory Card	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 256G), support manual/alarm recording
Analog Video Output	1.0V [p-p]/75Ω, PAL/NTSC/BNC
Application Programming	Open-ended API, support ISAPI, HIKVISION SDK and third-party management platform
Client	iVMS-4200
Web Browser	IE9+, chrome31-chrome44, Firefox 30-Firefox51, Safari 5.02+(mac)

General

General	
Menu language	English
Power	24 V AC± 25%
Power Consumption	30W
Working Temperature/Humidity	-30 °C to 60 °C (-22 °F to 140 °F), 90% or less
Protection Level	IP66 Standard TVS 6000V Lightning protection, surge protection, voltage transient protection
Dimensions	305 mm × 185 mm × 163 mm (12.01 " × 7.28" × 6.42 ")
Weight	3.9Kg (8.6lb)

Detection Range Table

* The table is only for reference, the performance may vary from camera to camera.

Smart functions Range

Different targets trigger the VCA events within different range limits.

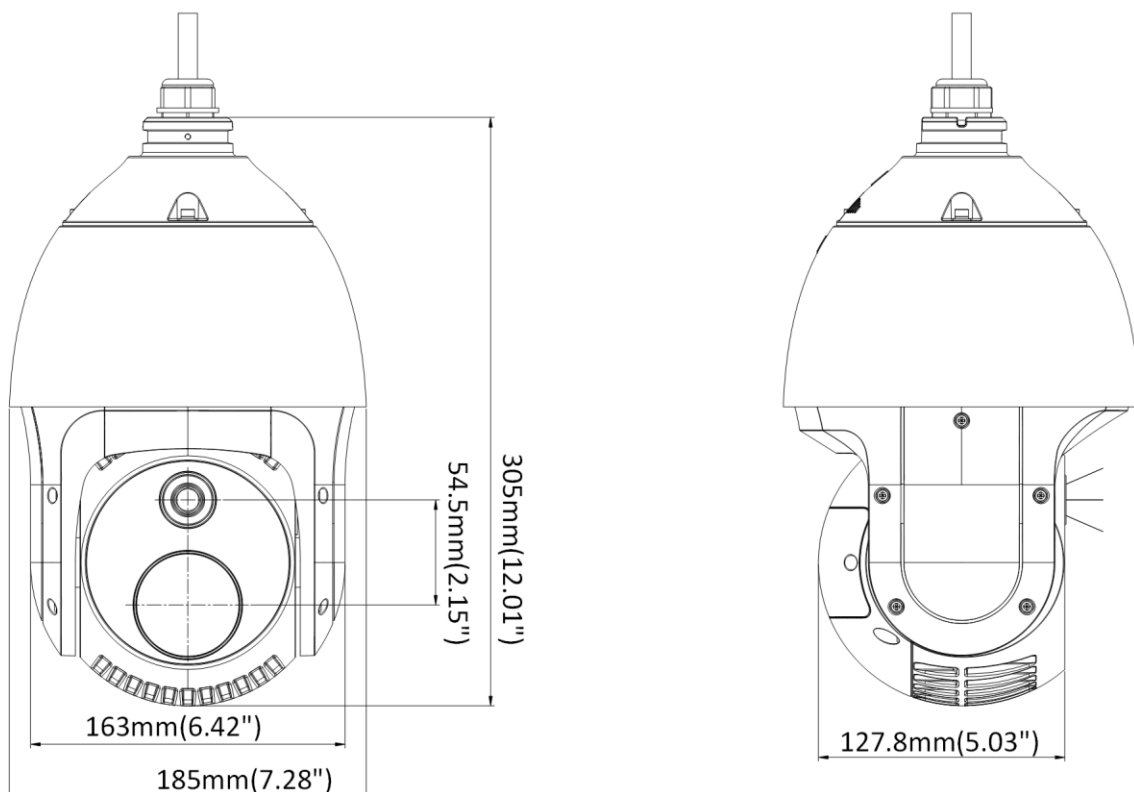| VCA Range (Vehicles: 1.4×4.0m)	VCA Range (Humans: 1.8×0.5m)	Temperature Measurement (Object:2×2 m)	Temperature measurement (Object:1×1 m)	Fire Detection (Object:2×2 m)	Fire Detection (Object:1×1 m)
300 m	100 m	234 m	118 m	588 m	294 m

Wide Range Coverage

There is range limit for detecting, recognizing, and identifying human/vehicle targets.

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)
902 m	294 m	225 m	74 m	113 m	37 m

Available Model

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Dimension

![Dimension drawings showing front view with measurements 305mm(12.01"), 54.5mm(2.15"), 163mm(6.42"), 185mm(7.28") and side view with 127.8mm(5.03")]

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Distributed by

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