

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







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

Na.384 × 288 (the resolution of output image is 1280 × 720)Pixel interval17µmResponse Waveband8µm to 14µmResponse Waveband10 mmLens (focal Length)10 mmIso (focal Length)1.70 mradField of View37.7* × 28.7" (H × V) (H × V)Min. Focusing Distance1.2 mApertureF1.0Ottical Module1920 × 1080Min. IlluminationColor: 0.05 Lux @(F1.2, AGC ON), B/W: 0.01 Lux @(F1.2, AGC ON)Min. IlluminationColor: 0.05 Lux @(F1.2, AGC ON), B/W: 0.01 Lux @(F1.2, AGC ON)Eled of View4.8-153mField of View4.8-153mField of View1.2 for Constant (Pol Sa.8" to 2.14", vertical FOV 33.8" to 1.2", diagonal FOV 65.6" to 2.46"Aperture RangeF1.2-F4.4Focus ModeAuto / Semiautomatic / ManualWDR120 dBShutter Speed13 to 1/100,000sDay & NightIs to 1/100,000sLay & Viet Ocottent Analysis)14 cu filterSmart Function3 temperature measurement rule types, 21 rules (10 points, 10 areas, and 1 line).Temperature Range-20°C (cu +150 °C (-4 °F to +302°F)Temperature Range-20°C contisto "C (-4 °F to +302°F)Temperature Range9 cu / Sto 200'sTemperature Range9 cu / Sto 200'sProportional ZoomYesProportional ZoomYesProportional ZoomYesProportional ZoomYesProportional ZoomYesProportional ZoomYesProportional Zoom <t< th=""><th>Thermal Module</th><th></th></t<>	Thermal Module																																																																																																				
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Up to 32 Presets Per PatrolPattern Scan4; More Than 10 Minutes Per Pattern</td><td>Proportional Zoom</td><td>Yes</td></tr> <tr><td>Pattern Scan 4; More Than 10 Minutes Per Pattern</td><td>Presets</td><td>300</td></tr> <tr><td></td><td>Patrol Scan</td><td>8; Up to 32 Presets Per Patrol</td></tr> <tr><td>Power Off Memory Yes</td><td>Pattern Scan</td><td>4; More Than 10 Minutes Per Pattern</td></tr> <tr><td></td><td>Power Off Memory</td><td>Yes</td></tr>	Pixel Interval	17µm	Leng (Focal Length)10 mmIFOV1.70 mradField of View37.7* x 28.7° (H × V) (H × V)Min. 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IlluminationColor: 0.05 Lux @(F1.2,AGC ON), B/W: 0.01 Lux @(F1.2, AGC ON)Lens (Focal Length)4.8-153mmField of Viewhorizontal FOV 58.4" to 2.14", vertical FOV 33.8" to 1.2", diagonal FOV 65.6" to 2.46"Aperture RangeF1.2-F4.4Focus Modekuto / Semiautomatic / ManualWDR18 to 1/100,000sDay & NightIs to 1/100,000sSmart Functionvuck rules.VCA (Video Content Analysis)vuch rules.Temperature Range-20 °C to +150 °C (-4 °F to +302 °F)Temperature Range-20 °C to +150 °C (-4 °F to +302 °F)Temperature Range-20 °C to +150 °C (-4 °F to +302 °F)Temperature Range9.0" and iffer point detection, up to 10 fire points, 10 areas, and 1 line).Profection0 stront incous Rotate; Tilt: From -5" to + 90" (auto flip)Pan Speed0.1"/s to 200'/sTilt Speed9.0"/s to 105'/sProportional ZoomYesPresets300Parture Scan4. Wore Than 10 Minutes Per Pattern	NETD	less than 40 mK (25°C), F#=1.0	Field of View37.7* × 28.7° (H × V) (H × V)Min. Focusing Distance1.2 mApertureFi.0Optical ModueUnage Sensor1/2.8" Progressive Scan CMOSMax. 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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:1K Ω ±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)				

X



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

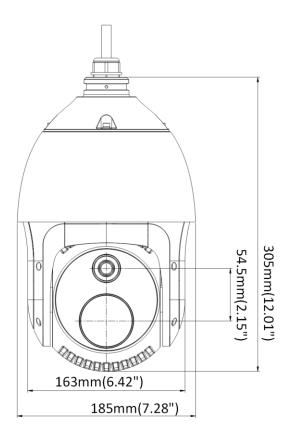
There is range limit for detecting, recognizing, and identifying human/vehicle targets.

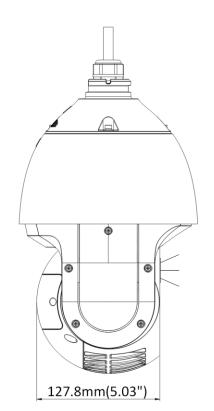
Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles:	(Humans:	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
1.4×4.0m)	1.8×0.5m)	1.4×4.0m)	1.8×0.5m)	1.4×4.0m)	1.8×0.5m)
902 m	294 m	225 m	74 m	113 m	37 m

Available Model

DS-2TD4237-10/V2

Dimension







Distributed by

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