

DS-2TD2137-7/P Thermal Network Bullet Camera

DeepinView





Hikvision DS-2TD2137-7/P Thermal Network Bullet Camera 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)

- Image processing technology: Adaptive AGC, DDE, 3D DNR, NETD ≤ 35mk (@25°C,F#=1.0)
- Behavior analysis function, based on deep learning algorithm: Line crossing, Intrusion, Region Entrance & Exit
- Temperature exception alarm for fire prevention
- Fire detection algorithm

Thermal Imaging Module Function

- 384 × 288 resolution sensor, high sensitivity sensor, support contrast adjustment
- 3D DNR, 15 palettes of color adjustable, image detail enhancement
- Mirror image, digital zoom ×2, ×4, ×8, local output





Specification

Image Sensor Vanadium Oxide Uncooled Focal Plane Arrays Max. Resolution 384 × 288 Pixel Interval 17 μm Response Waveband 8 μm to 14 μm NETD ≤ 35mk (@25°C, F#=1.0) Lens (Focal Length) 6.5 mm IFOV 2.62 mrad Field of View 60° × 44.1° (H × V) Min. Focusing Distance 0.6 m Aperture F 1.0 Smart Function VCA (Video Content Analysis) 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules. Temperature Range 40° C 4 vale * To 302 °F) Temperature Range 40° C 16 150° C (4 °F to 302 °F) Temperature Accuracy 48 °C (14.4 °F) Fire detection Dynamic fire point detection, up to 10 fire points detectable. Network Main Stream 25 fps (1280 × 720, 704 × 576, 352 × 288,384 × 288) Sub Stream 25 fps (1280 × 720, 704 × 576, 352 × 288,384 × 288) Third Stream 25 fps (1280 × 720, 704 × 576, 352 × 288,384 × 288) <t< th=""><th>Thermal Module</th><th></th></t<>	Thermal Module	
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Third Stream 25 fps (1280 × 720, 704 × 576, 352 × 288,384 × 288) Video Compression H.265/H.264/MJPEG 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 Simultaneous Live View Up to 20 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 Interface Alarm Input 2-ch inputs (0-5 VDC) Alarm Output 2-ch relay outputs, alarm response actions configurable Alarm Action SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage 1 3.5mm Mic in/Line in interface. Line input: 2-2.4 V[p-p], output impedance:1 KΩ ± 10% Audio Output Linear Level; Impedance: 600 Ω Ethernet 1 RJ45 10 M/100 M Self-adaptive Ethernet interface	Main Stream	25 fps (1280 × 720, 704 × 576, 352 × 288,384 × 288)
Video CompressionH.265/H.264/MJPEGAudio CompressionG.711u/G.711a/G.722.1/MP2L2/G.726/PCMProtocolsIPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS,NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoESimultaneous Live ViewUp to 20User/Host levelUp to 32 users, 3 levels: Administrator, Operator, UserSecurity MeasuresUser authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filteringInterfaceAlarm Input2-ch inputs (0-5 VDC)Alarm Output2-ch relay outputs, alarm response actions configurableAlarm ActionSD Card Record/Relay Output/Smart capture/FTP upload/Email linkageAudio Input1 3.5mm Mic in/Line in interface. Line input: 2-2.4 V[p-p], output impedance:1 KΩ ± 10%Audio OutputLinear Level; Impedance: 600 ΩEthernet1 RJ45 10 M/100 M Self-adaptive Ethernet interface	Sub Stream	25 fps (704 × 576, 352 × 288,384 × 288)
Audio CompressionG .711u/G.711a/G.722.1/MP2L2/G.726/PCMProtocolsIPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS,NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoESimultaneous Live ViewUp to 20User/Host levelUp to 32 users, 3 levels: Administrator, Operator, UserSecurity MeasuresUser authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filteringInterfaceAlarm Input2-ch inputs (0-5 VDC)Alarm Output2-ch relay outputs, alarm response actions configurableAlarm ActionSD Card Record/Relay Output/Smart capture/FTP upload/Email linkageAudio Input1 3.5mm Mic in/Line in interface. Line input: 2-2.4 V[p-p], output impedance:1 KΩ ± 10%Audio OutputLinear Level; Impedance: 600 ΩEthernet1 RJ45 10 M/100 M Self-adaptive Ethernet interface	Third Stream	25 fps (1280 × 720, 704 × 576, 352 × 288,384 × 288)
ProtocolsIPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS,NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPOESimultaneous Live ViewUp to 20User/Host levelUp to 32 users, 3 levels: Administrator, Operator, UserSecurity MeasuresUser authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filteringInterfaceInterfaceAlarm Input2-ch inputs (0-5 VDC)Alarm Output2-ch relay outputs, alarm response actions configurableAlarm ActionSD Card Record/Relay Output/Smart capture/FTP upload/Email linkageAudio Input1 3.5mm Mic in/Line in interface. Line input: 2-2.4 V[p-p], output impedance:1 KΩ ± 10%Audio OutputLinear Level; Impedance: 600 ΩEthernet1 RJ45 10 M/100 M Self-adaptive Ethernet interface	Video Compression	H.265/H.264/MJPEG
ProtocolsRTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoESimultaneous Live ViewUp to 20User/Host levelUp to 32 users, 3 levels: Administrator, Operator, UserSecurity MeasuresUser authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filteringInterfaceAlarm Input2-ch inputs (0-5 VDC)Alarm Output2-ch relay outputs, alarm response actions configurableAlarm ActionSD Card Record/Relay Output/Smart capture/FTP upload/Email linkageAudio Input1 3.5mm Mic in/Line in interface. Line input: 2-2.4 V[p-p], output impedance:1 KΩ ± 10%Audio OutputLinear Level; Impedance: 600 ΩEthernet1 RJ45 10 M/100 M Self-adaptive Ethernet interface	Audio Compression	G .711u/G.711a/G.722.1/MP2L2/G.726/PCM
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Security Measures B02.1x access control, IP address filtering Interface Alarm Input 2-ch inputs (0-5 VDC) Alarm Output 2-ch relay outputs, alarm response actions configurable Alarm Action SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage Audio Input 1 3.5mm Mic in/Line in interface. Line input: 2-2.4 V[p-p], output impedance:1 KΩ ± 10% ± 10% Audio Output Linear Level; Impedance: 600 Ω Ethernet 1 RJ45 10 M/100 M Self-adaptive Ethernet interface	User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Alarm Input 2-ch inputs (0-5 VDC) Alarm Output 2-ch relay outputs, alarm response actions configurable Alarm Action SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage 1 3.5mm Mic in/Line in interface. Line input: 2-2.4 V[p-p], output impedance:1 KΩ ± 10% Audio Output Linear Level; Impedance: 600 Ω Ethernet 1 RJ45 10 M/100 M Self-adaptive Ethernet interface	Security Measures	
Alarm Output 2-ch relay outputs, alarm response actions configurable SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage 1 3.5mm Mic in/Line in interface. Line input: 2-2.4 V[p-p], output impedance:1 K Ω 4 audio Output Linear Level; Impedance: 600 Ω Ethernet 1 RJ45 10 M/100 M Self-adaptive Ethernet interface	Interface	
Alarm Action SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage $\begin{array}{ll} \text{1 3.5mm Mic in/Line in interface. Line input: 2-2.4 V[p-p], output impedance:1 K}\Omega\\ \pm 10\% \\ \text{Audio Output} & \text{Linear Level; Impedance: 600 }\Omega\\ \text{Ethernet} & \text{1 RJ45 10 M/100 M Self-adaptive Ethernet interface} \end{array}$	Alarm Input	2-ch inputs (0-5 VDC)
Audio Input $ \begin{array}{c} 1 \ 3.5 \text{mm Mic in/Line in interface. Line input: 2-2.4 V[p-p], output impedance:1 K} \Omega \\ \pm 10\% \\ \text{Audio Output} \\ \text{Ethernet} \\ \end{array} $ Linear Level; Impedance: $600 \ \Omega$ $ 1 \ \text{RJ45 10 M/100 M Self-adaptive Ethernet interface} $	Alarm Output	2-ch relay outputs, alarm response actions configurable
Audio Input $\pm 10\%$ Audio Output Linear Level; Impedance: $600 \ \Omega$ Ethernet $1 \ RJ45 \ 10 \ M/100 \ M \ Self-adaptive \ Ethernet interface$	Alarm Action	SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage
Ethernet 1 RJ45 10 M/100 M Self-adaptive Ethernet interface	Audio Input	
· ·	Audio Output	Linear Level; Impedance: 600 Ω
SD Memory Card Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 256 G),	Ethernet	1 RJ45 10 M/100 M Self-adaptive Ethernet interface
	SD Memory Card	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 256 G),



	support manual/alarm recording					
Analog Video Output	1.0 V [p-p]/75 Ω, BNC, PAL/NTSC					
Communication Interface	RS-485					
Application Programming	Open-ended API, support ISAPI, HIKVISION SDK and third-party management platform, ONVIF (Profile S, Profile G, Profile T)					
Client	iVMS-4200, Hik-Connect					
Web Browser	IE 8-11, Chrome 41-44, Firefox 30-51					
General						
Menu Language	32 languages					
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech,					
	Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,					
	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional					
	Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)					
Davis	24 VAC ± 25%, 12 VDC ± 25%, two-core terminal block					
Power	PoE (802.3af, class 3)					
	18 VAC to 30VAC: 0.13 A to 0.22A, max 5w					
Power Consumption	9 VDC to 15VDC: 0.37 A to 0.61A, max 5w					
	PoE (802.3af, class 3): 44 V to 57 V: 0.1 A to 0.13 A, max. 5.5W					
Working	Temperature: -40 °C to 65 °C (-40 °F to 149 °F)					
Temperature/Humidity	Humidity: 90% or less					
Duatastian Laval	IP66 Standard					
Protection Level	TVS 6000V Lightning protection, surge protection, voltage transient protection					
Dimensions	358.3 mm × 113.5 mm × 115.2 mm (14.10" × 4.47" × 4.53")					
Weight	Approx. 1.77 kg (3.90 lb)					



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)
210 m	70 m	164 m	83 m	412 m	206 m

Wide Range Coverage

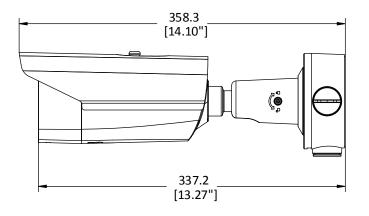
There is range limit for detecting, recognizing, and identifying human/vehicle targets.

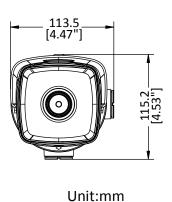
Detection Range (Vehicles: 1.4×4.0m)	Detection Range (Humans: 1.8×0.5m)	Recognition Range (Vehicles: 1.4×4.0m)	Recognition Range (Humans: 1.8×0.5m)	Identification Range (Vehicles: 1.4×4.0m)	Identification Range (Humans: 1.8×0.5m)
631 m	206 m	158 m	51 m	79 m	26 m

Available Model

DS-2TD2137-7/P

Dimension







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