DS-2TD2117-3/P
Thermal Network Bullet Camera

DeepinView series

Hikvision DS-2TD2117-3/P Thermal Network Bullet Camera, equipped with built-in GPU which supports 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 community, villa, construction site, factory, 4S stores, and so on. The pre-alarm system helps you discover unexpected events immediately and protects your property.

Smart Function (Thermal Imaging)

- Image processing technology: adaptive AGC, DDE, 3D DNR, NETD ≤ 40 mK (25 °C, F# = 1.1)
- Behavior analysis function, based on deep learning algorithm: line crossing, intrusion, region entrance & exit
- Temperature exception alarm
- Fire detection algorithm

Thermal Imaging Module Function

- 160 × 120 (the resolution of output image is 320 × 240) resolution sensor, and high sensitivity sensor
- Support 3D DNR, 15 palettes of color adjustable, image detail enhancement, and contrast adjustment
- Mirror image, digital zoom ×2, ×4, ×8

Specification

Thermal Module

Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Max. Resolution	160 × 120 (the resolution of output image is 320 × 240)
Pixel Interval	17 μm
Response Waveband	8 μm to 14 μm
NETD (Noise Equivalent Temperature Difference)	≤ 40 mK (25 °C, F# = 1.1)
Lens (Focal Length)	3.1 mm
IFOV	5.48 mrad
Field of View	50° × 37.2° (H × V)
Min. Focusing Distance	0.2 m
Aperture	F 1.1

Smart Function

VCA (Video Content Analysis)	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total.
Temperature Measurement	3 temperature measurement rule types, 21 rules in total (10 points, 10 regions, 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.

Network

Main Stream	1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240
Sub-stream	704 × 576, 352 × 288, 320 × 240
Third Stream	1280 × 720, 704 × 576, 352 × 288, 320 × 240
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

Integration

Alarm Input	2-ch inputs (0-5 VDC)
Alarm Output	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, 3.5 mm 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

Communication Interface	1, RJ45 10M/100M self-adaptive Ethernet interface. 1, RS-485 interface
SD Memory Card	Built-in MicroSD card slot, supporting MicroSD/SDHC/SDXC card (up to 128 GB) Supports manual/alarm recording
Analog Video Output	1.0 V [p-p]/75 Ω, PAL/NTSC
Application Programming	Open-ended API, supporting ISAPI, HIKVISION SDK, and third-party management platform
Client	iVMS-4200, Hik-Connect
Web Browser	IE9+, Chrome 31-44, Firefox 30-51, Safari 5.02+ (mac)
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)
Power	12 VDC ± 20%, two-core terminal block PoE (802.3af, class 3)
Power Consumption	12 VDC ± 20%: 0.4 A, max. 4.5 W PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, max. 5 W
Working Temperature/Humidity	-40 °C to 65 °C (-40 °F to 149 °F) 95% or less
Protection Level	IP66 Standard 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. 1.71 kg (3.77 lb)

Detection Range Table

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

Smart Functions Range

Different targets trigger the VCA events within different range limits.

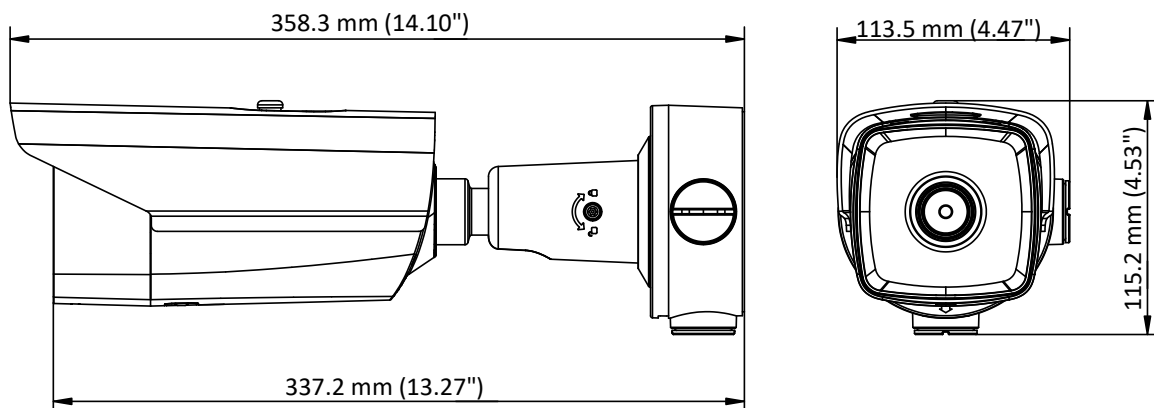| VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
63 m	21 m	66 m	33 m	180 m	90 m

Wide Range Coverage

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

Detection Range (Vehicles: 1.4 × 4.0 m)	Detection Range (Humans: 1.8 × 0.5 m)	Recognition Range (Vehicles: 1.4 × 4.0 m)	Recognition Range (Humans: 1.8 × 0.5 m)	Identification Range (Vehicles: 1.4 × 4.0 m)	Identification Range (Humans: 1.8 × 0.5 m)
280 m	91 m	70 m	23 m	35 m	11 m

Available Model

DS-2TD2117-3/P

Dimension

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