DS-2TD1117-2/PA
Thermal Network Turret Camera

DeepinView series

Hikvision DS-2TD1117-2/PA Thermal Network Turret 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 fire-prevention purposes in indoor space such as engine room, ATM, conference room, warehouse, museum, train station, gem, power station, 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 less than 40 mk (25 °C), F# = 1.1
- Behavior analysis function, based on deep learning algorithm: Line crossing, Intrusion, Region Entrance & Exit
- Temperature exception alarm function
- Fire detection algorithm

Thermal Imaging Module Function

- 160 × 120 (the resolution of output image is 320 × 240) resolution sensor, high sensitivity sensor
- Supports 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	8µm to 14µm
NETD	Less than 40 mk (25 °C), F# = 1.1
Lens (Focal Length)	1.8 mm
IFOV	9.44 mrad
Field of View	90° × 66.4° (H × V)
Min. Focusing Distance	0.8 m
Aperture	F1.1
Smart Function	
VCA (Video Content Analysis)	4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules totally.
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.
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	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
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	1-ch inputs (0-5 VDC)
Alarm Output	1-ch relay outputs, alarm response actions configurable
Alarm Action	SD recording/relay output/smart capture/FTP upload/email linkage/audio alarm/white light alarm
Audio Input	1, 3.5 mm Mic in/Line in interface. Line input: 2-2.4 V [p-p], output impedance: 1KΩ ± 10%
Audio Output	Linear level, impedance: 600 Ω
Reset	1 Reset Button
Communication Interface	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	1.0 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+, chrome31-44, 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)
Adjustment Range	Pan: 0° to 360°, Tilt: 0° to 75°, Rotate: 0° to 360°
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	138.3 mm × 138.3 mm × 123.1 mm (5.45 " × 5.45" × 4.85 ")
Weight	920 g (2.03 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)
42 m	14 m	44 m	22 m	108 m	54 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)
162 m	53 m	41 m	13 m	20 m	7 m

Available Model

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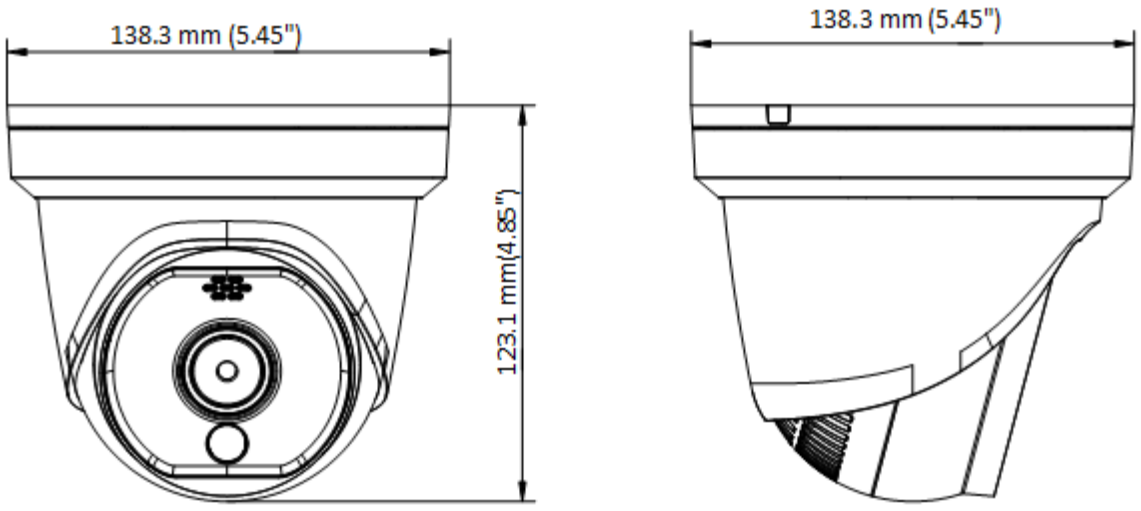
Dimension



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