

# DS-2TD2617-6/PA Thermal & Optical Network Bullet Camera





Hikvision DS-2TD2617-6/PA Thermal Bi-spectrum 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
- Bi-spectrum image fusion, picture in picture preview
- Strobe light and audio alarm

#### **Thermal Imaging Module Function**

- 160 × 120 (the resolution of output image is 320 × 240) resolution sensor, and high sensitivity sensor
- 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	17µm					
Response Waveband	8 μm to 14 μm					
NETD (Noise Equivalent	≤ 40 mk (@25 °C, F# = 1.1)					
Temperature Difference)	$\leq 40$ mk ( $(25 C, F_{H} - 1.1)$					
Lens (Focal Length)	6.2 mm					
IFOV	2.74 mrad					
Field of View	25° × 18.7° (H × V)					
Min. Focusing Distance	0.6 m					
Aperture	F 1.1					
Optical Module						
Max. Image Resolution	2688 × 1520					
Image Sensor	1/2.7" Progressive Scan CMOS					
Min. Illumination	Color: 0.0089 Lux @(F1.6, AGC ON), B/W: 0.0018 Lux @(F1.6, AGC ON)					
Shutter Speed	1 s to 1/100,000 s					
Lens (Focal Length)	8 mm					
Field of View	39.42° × 22.14° (H × V)					
WDR	120 dB					
Day & Night	IR cut filter with auto switch					
Image Function						
Bi-spectrum Image Fusion	Fusion view of thermal view and overlaid details of the optical channel					
Picture in Picture	Combines details of thermal and optical image PIP, overlay thermal image on optical image					
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 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.					
Infrared						
IR Distance	Up to 40 m					
IR Intensity and Angle	Automatically adjusted					



#### Network

Main Stream	Visible Light: 50Hz: 25fps (2688 × 1520), 25fps (1920 × 1080), 25fps (1280 × 720) Visible Light: 60Hz: 30fps (2688 × 1520), 30fps (1920 × 1080), 30fps (1280 × 720) Thermal: 1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240					
Sub-stream	Visible Light: 50Hz: 25fps (704 × 576), 25fps (352 × 288), 25fps (176 × 144) Visible Light: 60Hz: 30fps (704 × 480), 30fps (352 × 240), 30fps (176 × 120) Thermal: 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 802.2 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	SD recording/relay output/smart capture/FTP upload/email linkage/audio alarm/whi light alarm					
Audio Input	1, 3.5 mm Mic in/Line in interface. Line input: 2 to 2.4 V [p-p], output impedance: 1 KC ± 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 128 GB) Supports manual/alarm recording					
Analog Video Output	1.0 V [p-p]/75 Ω, PAL/NTSC					
Application Programming	Open-ended API, support 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%: 0.65 A, max. 7.5 W PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, max. 8 W					
Working Temperature/Humidity	Temperature: -40 °C to 65 °C (-40 °F to 149 °F) Humidity: 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. 1.76 kg (3.88 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)
126 m	42 m	132 m	66 m	360 m	180 m

#### Wide Range Coverage

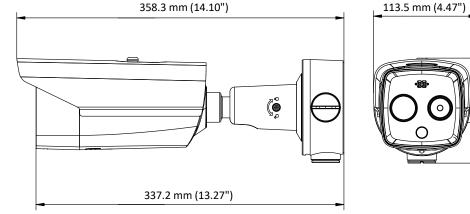
There is range limit for detecting, recognizing, and identifying human/vehicle targets.

Detection Range	Detection Range	Recognition	Recognition	ldentification	Identification
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
559 m	182 m	140 m	46 m	70 m	23 m

## **Available Model**

DS-2TD2617-6/PA

## Dimension







Distributed by

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