

# **DS-2TD2117-6/PAI Thermal Network Bullet Camera**















Hikvision DS-2TD2117-6/PAI 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 protection and fire prevention purposes in commercial facilities such as residential, retail, villa, parking lot, museum, data centers and so on. The pre-alarm system helps you discover unexpected events immediately and protects your property.

#### **Key Feature**

- · Behavior analysis function, based on deep learning algorithm: line crossing, intrusion, region entrance & exit
- Temperature exception alarm
- Fire detection algorithm
- 160 × 120 (the resolution of output image is 320 × 240) resolution 17  $\mu$ m, VOx UFPA, NETD ≤ 40 mK (25 °C, F# = 1.1)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR





# Specification

Thermal Module						
Image Sensor	nsor Vanadium Oxide Uncooled Focal Plane Arrays					
Resolution	$160 \times 120$ (the resolution of output image is $320 \times 240$ )					
Pixel Interval	17 μm					
Response Waveband	8 μm to 14 μm					
NETD (Noise Equivalent	< 40 mV /25 °C F# = 1.1)					
Temperature Difference)	≤ 40 mK (25 °C, F# = 1.1)					
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					
Digital Zoom	×2, ×4, ×8					
Image Effect						
Target Coloration	Yes. Supported in white hot and black hot mode.					
Audible and Visual Alarm						
White Light Range	Up to 40 m					
Visual Alarm	Yes. White light used as the visual alarm, flashing frequency adjustable					
Audio alarm	Yes. 6 audio alarms are supported to cover all kinds of alarm.					
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	·					
Temperature Accuracy						
Fire Detection	Dynamic fire detection, up to 10 fire points detectable.					
Video & Audio						
Main Stream	25 fps (1280 × 720 ,704 × 576 ,640 × 480 ,352 × 288 ,320 × 240)					
Sub-stream	25 fps (704 × 576, 352 × 288, 320 × 240)					
Third Stream	25 fps (1280 × 720 ,704 × 576 ,352 × 288 ,320 × 240)					
	Main Stream: H.265/H.264					
Video Compression	Sub-Stream: H.265/H.264/MJPEG					
	Third Stream: H.265/H.264/MJPEG					
Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM					
Network						
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE					



Network Storage	MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)				
	Open-ended API, supporting ISAPI, HIKVISION SDK, and third-party management				
API	platform, open network video interface				
Simultaneous Live View	Up to 20 channels				
User/Host Level	Up to 32 users, 3 levels: Administrator, Operator, User				
0301/11030 20101	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE				
Security	802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering				
Client	iVMS-4200, Hik-Connect				
Web Browser	IE 11, Chrome 41-44, Firefox 30-51				
interface					
Alarm Input	1-ch input (0-5 VDC)				
Alarm Output	1-ch relay output, alarm response actions configurable				
Alarm Action	SD card record/relay output/smart capture/FTP upload/email linkage/ audio				
Additi Action	alarm/white light alarm				
Audio Input	1, 3.5 mm Mic in/Line in interface.				
Addio iliput	Line input: 2-2.4 V [p-p], output impedance: 1 K $\Omega$ ± 10%				
Audio Output	Linear level, impedance: $600  \Omega$				
Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface.				
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± 25%, two-core terminal block PoE (802.3af, class 3)				
Power Consumption	9 VDC to 15 VDC : 0.4A, max. 4.5 W PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, max. 5.0 W				
Working Temperature/Humidity	-40 °C to 65 °C (-40 °F to 149 °F)				
	95% or less				
Protection Level	IP66 Standard				
Dimensions	TVS 6000V lightning protection, surge protection, voltage transient protection				
Dimensions	354 mm × 144.1 mm × 156.7 mm (13.94" × 5.67" × 6.17")				
Weight	Approx. 1.71 kg (3.77 lb)				



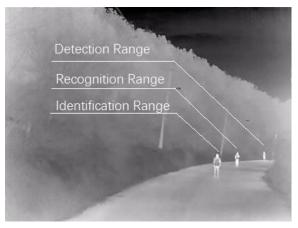
## **DRI Range Table**

- \* The table is only for reference and the performance may vary according to different environment.
- \* The optimal human detection, recognition, and identification distances are calculated according to Johnson's Criteria.

Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels.

Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels.

Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.



Detection Range	Detection Range	Recognition	Recognition	Identification	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

#### **Smart Function Table**

\* The table is only for reference and the performance may vary according to different environment.

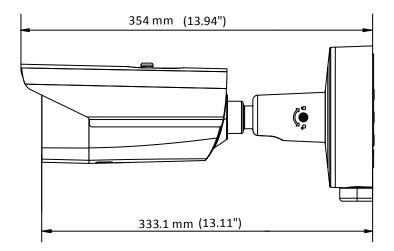
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
85 m	30 m	132 m	66 m	360 m	180 m

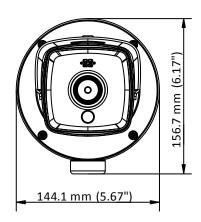
#### **Available Model**

DS-2TD2117-6/PAI



# Dimension





# Accessory



DS-1476ZJ-SUS Corner Mount



DS-1475ZJ-SUS Vertical Pole Mount



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