

DS-2TD2166-7/15/25/35 Thermal Network Bullet Camera



Hikvision DS-2TD2166-7/15/25/35 Thermal Network Bullet Camera 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)

- Leading image processing technology: Adaptive AGC, DDE, 3D DNR, NETD < 40mk (@25°C, F#=1.0)
- Powerful behavior analysis algorithm: Line crossing, Intrusion, Region Entrance & Exit
- Reliable temperature exception alarm function
- Advanced fire detection algorithm

Thermal Imaging Module Function

- 640*512 resolution, high sensitivity sensor, support contrast adjustment
- Support shutter adjustment in various modes
- 3D DNR, 15 palettes of color adjustable, image detail enhancement
- 7mm, 15mm, 25mm, and 35mm Lens are optional



Specifications

Parameter		Model	DS-2TD2166-7	DS-2TD2166-15	DS-2TD2166-25	DS-2TD2166-35
		Thermal Network Bullet Camera				
Thermal module	Image sensor	Vanadium Oxide Uncooled Focal Plane Arrays				
	Max. Resolution	640 × 512				
	Detector Pitch	17μm				
	Response waveband	8μm to 14μm				
	NETD	< 40mk (@25°C,F#=1.0)				
	Lens (focal length)	7 mm	15 mm	25 mm	35 mm	
	MRAD	2.42mrad	1.13mrad	0.68mrad	0.49mrad	
	Field of View	88.5° × 73.2°	39.87° × 32.36°	24.55° × 19.75°	17.67° × 14.18°	
	Min. Focusing Distance	0.8 m	2.5 m	13 m	40 m	
	F number	1.0				
Smart function	VCA	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), 8 VCA rules.				
	Temperature Measurement	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line)				
	Temperature range	-20 °C to 150 °C (-4 °C to 302 °F)				
	Temperature accuracy	±8 °C (14.4°F)				
	Fire detection	Support 10 fire points				
Network	Main Stream	50fps (640×512, 384×288, 352×288)				
	Sub Stream	50fps (640×512, 384×288, 352×288)				
	Third Stream	50fps (640×512, 384×288, 352×288)				
	Video Compression	H.264 (Baseline/Main/High Profile) /MJPEG/H.265, H.264+, H.265+				
	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, Bonjour				
	Simultaneous live view	Up to 20-ch				
	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 Input (0-5V DC)				
	Alarm Output	2-ch Relay Output, Support Alarm Linkage				
	Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage				
	Audio Input	1-ch 3.5mm Mic in/Line in interface. Line input: 2-2.4 V[p-p], output impedance:1KΩ±10%				
	Audio Output	Linear Level; Impedance: 600 Ω				
	Communication Interface	Built-in RJ45; 10M/100M Ethernet Interface				
	Onboard Storage	Built-in Micro SD/SDHC/SDXC Card Slot, Up to 64GB; Support Manual/Alarm Recording				
	Ethernet	1 RJ45 10M/100M Self-adaptive Ethernet interface				
	Analog Video Output	1.0V [p-p]/75Ω, PAL/NTSC/BNC				
	API	Open-ended API, support ISAPI; Support HIKVISION SDK and Third-party Management Platform				
	Client	iVMS-4200				
	Web Browser	IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+; Multiple Languages				
General	Menu	English				
	Power	POE+ (802.3at), 24VAC, 12VDC/3A, 8W (22W with De-icing Heater On)				
	Work Temperature/Humidity	From -40°C to 65°C (-40°F to 149°F); Humidity: 90% or Less				
	Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection				
	Dimensions	314mm × 104mm × 292.7mm (12.36" × 4.09" × 11.52")				
Weight	2kg (4.41lb)					

Wide Range Coverage for Different Specifications

Note: The table below is only for reference, the performance varies from model to model, and the specific data is based on 17 μm pixel detector pitch.

Lens (focal length)	7mm	10mm	15mm	25mm	35mm	50mm	75mm
Detection range (Vehicles)	631m	902m	1353m	2255m	3157m	4510m	6765m
Detection range (Humans)	206m	294m	441m	735m	1029m	1471m	2206m
Recognition range (Vehicles)	158m	225m	338m	564m	789m	1127m	1691m
Recognition range (Humans)	51m	74m	110m	184m	257m	368m	551m
Identification range (Vehicles)	79m	113m	169m	282m	395m	564m	846m
Identification range (Humans)	26m	37m	55m	92m	129m	184m	276m

Smart functions Range Table

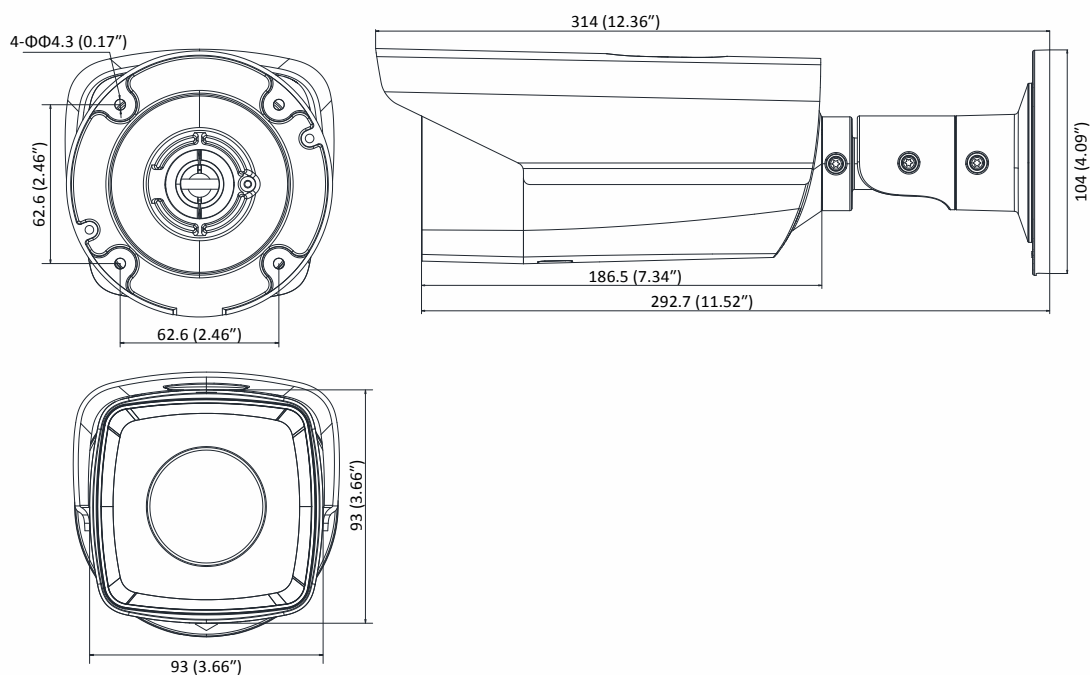
Note: The table below is only for reference, the performance varies from model to model, and the specific data is based on 17 μm pixel detector pitch.

Lens (focal length)	7mm	10mm	15mm	25mm	35mm	50mm	75mm
VCA range (humans)	50m	72m	110m	183m	255m	360m	540m
VCA range (Vehicles)	144m	205m	308m	514m	720m	1029m	1544m
Temperature measurement (Object:2×2 m)	164m	234m	351m	585m	819m	1170m	1775m
Temperature measurement (Object:1×1 m)	83m	118m	177m	295m	413m	590m	885m
Fire Detection (Object:2×2 m)	412m	588m	882m	1470m	2058m	2940m	4410m
Fire Detection (Object:1×1 m)	206m	294m	441m	735m	1029m	1470m	2205m

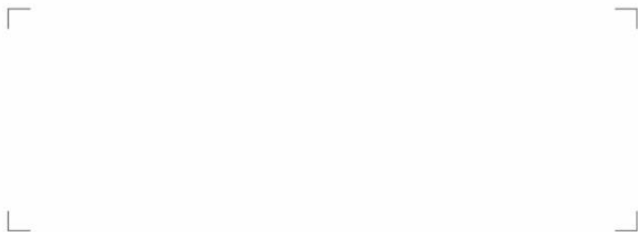
Order Models

DS-2TD2166-7; DS-2TD2166-15; DS-2TD2166-25; DS-2TD2166-35

Dimensions



Distributed by

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