

DS-2TD2166-xx/V1

Thermal Network Outdoor Bullet Camera

DeepinView



Smart Function (Thermal Imaging)

- Adaptive AGC, DDE, 3D DNR, NETD <math>< 40 \text{ mk}</math> (@ 25° C, F#=1.0)
- Line Crossing, Intrusion, Region Entrance/Exit
- Temperature Exception Alarm
- Advanced Fire Detection

Thermal Imaging Module Function

- 640 × 512 Resolution High Sensitivity Sensor, Supports Contrast Adjustment
- Shutter Adjustment in Various Modes
- 3D DNR, 15 Color Adjustable Palettes, Image Detail Enhancement

The Hikvision Hikvision DS-2TD2166-xx/V1 Thermal Network Bullet Camera Series is equipped with a built-in GPU, which support an intelligent behavior analysis algorithm and can realize high precision VCA detection and real-time alarms. It is applied to perimeter defense and fire-prevention purposes in critical infrastructures such as airports, railways, prisons, power stations, automobile dealerships, etc. The pre-alarm system helps discover unexpected events immediately and offers protection from property loss.

Available Models:

- DS-2TD2166-7/V1: 7 mm lens
- DS-2TD2166-15/V1: 15 mm lens
- DS-2TD2166-25/V1: 25 mm lens
- DS-2TD2166-35/V1: 35 mm lens



Specifications

	DS-2TD2166-7/V1	DS-2TD2166-15/V1	DS-2TD2166-25/V1	DS-2TD2166-35/V1
Thermal Module				
Image Sensor	Vanadium oxide uncooled focal plane arrays			
Maximum Resolution	640 × 512			
Pixel Interval	17 μm			
Response Waveband	8 μm to 14 μm			
NETD	Less than 40 mk (@ 25° C, F#=1.0)			
Lens (Focal Length)	7 mm	15 mm	25 mm	35 mm
MRAD	2.42 mrad	1.13 mrad	0.68 mrad	0.49 mrad
Field of View (H × V)	88.5° × 73.2°	42.5° × 33.6°	24.55° × 19.75°	17.67° × 14.18°
Min. Focusing Distance	0.8 m	2.5 m	13 m	30 m
Aperture	f/1.0			
Smart Functions				
VCA (Video Content Analysis)	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules			
Temperature Measurement	3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line)			
Temperature Range	-4° to 302° F (-20° to 150° C)			
Temperature Accuracy	±14.4° F (±8° C)			
Fire Detection	Dynamic fire point detection, up to 10 fire points detectable			
Network				
Main Stream	50 fps (640×512, 384×288, 352×288)			
Sub Stream	50 fps (640×512, 384×288, 352×288)			
Third Stream	50 fps (640×512, 384×288, 352×288)			
Video Compression	H.265/H.264/MJPEG, H.265+/H.264+ encoding with Baseline/Main/High Profile			
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/e-mail linkage			
Audio Input	1 3.5 mm mic in/line in interface. Line input: 2–2.4 V(p-p), output impedance: 1K Ω ±10%			
Audio Output	Linear level; Impedance: 600 Ω			
Ethernet	1 RJ-45 10M/100M self-adaptive Ethernet interface			
SD Memory Card	Built-in microSD card slot, supports microSD/SDHC/SDXC card (up to 128 GB), supports manual/alarm recording			
Analog Video Output	1.0 V [p-p]/75Ω, PAL/NTSC/BNC			
Application Programming Client	Open-ended API, supports ISAPI, HIKVISION SDK, and third-party management platform			
Web Browser	IE 9+, Chrome 31–Chrome 44, Firefox 30–Firefox 51, Safari 5.02+ (Mac)			
General				
Menu Language	English			
Power	24 VAC ±25%, 12 VDC ±20%, two-core terminal block PoE (802.3at, class 4)			
Power Consumption	24 VAC ±25%: 0.92 A, 12 VDC ±20%: 1.9 A, maximum 8 W, PoE (802.3at, class 4): 42.5 V to 57 V, 0.4 A to 0.5 A			
Working Temperature/Humidity	-40° to 149° F (-40° to 65° C), 90% or less (non-condensing)			
Protection Level	IP66 standard TVS 6000 V lightning protection, surge protection, voltage transient protection			
Dimensions	13.9" × 4.45" × 4.45" (352.4 mm × 113.5 mm × 113 mm)			
Weight	Approximately 2 kg (4.41 lb)			

Detection Range Table

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

Smart Functions Range

Different targets trigger the VCA events within different range limits.

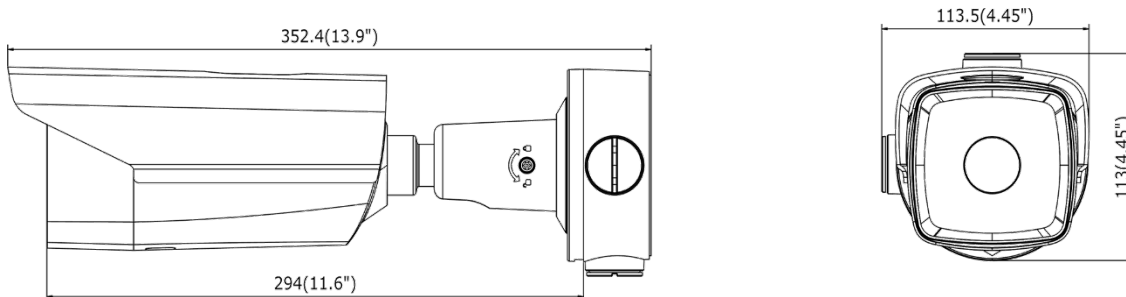
VCA Range (Vehicles: 1.4×4.0m)	VCA Range (Humans: 1.8×0.5m)	Temperature Measurement (Object:2×2 m)	Temperature Measurement (Object:1×1 m)	Fire Detection (Object:2×2 m)	Fire Detection (Object:1×1 m)
210 m	70 m	164 m	83 m	412 m	206 m
450 m	150 m	351 m	177 m	882 m	441 m
750 m	250 m	585 m	295 m	1470 m	735 m
1050 m	350 m	819 m	413 m	2058 m	1029 m

Wide Range Coverage

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

Detection Range (Vehicles: 1.4×4.0m)	Detection Range (Humans: 1.8×0.5m)	Recognition Range (Vehicles: 1.4×4.0m)	Recognition Range (Humans: 1.8×0.5m)	Identification Range (Vehicles: 1.4×4.0m)	Identification Range (Humans: 1.8×0.5m)
631 m	206 m	158 m	51 m	79 m	26 m
1353 m	441 m	338 m	110 m	169 m	55 m
2255 m	735 m	564 m	184 m	282 m	92 m
3157 m	1029 m	789 m	257 m	395 m	129 m

Dimensions



Unit: mm(inch)