

DS-2TD2836-xx/V1

Thermal and Optical Network Outdoor Bullet Camera Series

DeepinView



Smart Functions (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
- Bi-Spectrum Image Fusion, Picture-in-Picture Preview

Thermal Imaging Module Functions

- 384 × 288 Resolution High Sensitivity Sensor, Supports Contrast Adjustment
- Shutter Adjustment in Various Modes
- 3D DNR, 15 Color Adjustable Palettes, Image Detail Enhancement
- Mirror Image, Digital Zoom, and Local Output

The Hikvision DS-2TD2836-xx/V1 Thermal Bi-Spectrum Network Bullet Camera Series is equipped with built-in GPUs, 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 communities, villas, construction sites, factories, automobile dealers, etc. The pre-alarm system helps discover unexpected events immediately and protects against property loss.

Includes an integrated de-icing heater.

Available Models:

DS-2TD2836-25/V1: 25 mm thermal lens
DS-2TD2836-50/V1: 50 mm thermal lens



Specifications

	DS-2TD2836-25/V1	DS-2TD2836-50/V1
Thermal Module		
Image Sensor	Vanadium oxide uncooled focal plane arrays	
Maximum Resolution	384 × 288	
Pixel Interval	17 μm	
Response Waveband	8 μm to 14 μm	
NETD	<40 mk (@ 25° C, F#=-1.0)	
Lens (Focal Length)	25 mm	50 mm
MRAD	0.68 mrad	.34 mrad
Field of View (H x V)	14.88° x 11.19°	7.47° x 5.61°
Minimum Focusing Distance	13 m	50 m
Aperture	f/1.0	
Optical Module		
Maximum Image Resolution	1920 × 1080	
Image Sensor	1/2.8" progressive scan CMOS	
Minimum Illumination	Color: 0.001 lux @ (f/1.2, AGC on), B/W: 0.0001 lux @ (f/1.2, AGC on)	
Shutter Speed	1s to 1/100,000s	
Lens (Focal Length)	13 mm	25 mm
Field of View (H x V)	24° × 13.7°	12.7° x 7.2°
WDR	120 dB	
Day/Night	IR cut filter with auto switch	
Image Functions		
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 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.	
Infrared		
IR Distance	Up to 100 m	
IR Intensity and Angle	Automatically adjusted	
Network		
Main Stream	Visible Light: 60 Hz: 30 fps (1920 × 1080), 30 fps (1280 × 960), 30 fps (1280 × 720) Thermal: 50 fps (384 × 288)	
Sub Stream	Visible Light: 60 Hz: 30 fps (704 × 480), 30 fps (352 × 240), 30 fps (176 × 120) Thermal: 50 fps (384 × 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	SD recording/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	
Reset	1 reset button	
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]/75 Ω, 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 15 W (22 W with de-icing heater on), PoE (802.3at, class 4): 42.5 V to 57 V, 0.4 A to 0.5 A	
Working Temperature/Humidity	-40° to 140° F [-40° to 60° C], 90% or less (non-condensing)	
Protection Level	IP66 standard TVS 6000V lightning protection, surge protection, voltage transient protection	
Dimensions	21.06" × 6.73" × 15.75" (535 mm × 171 mm × 400 mm)	

Weight | Approximately 6 Kg (13.23 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)
DS-2TD2836-25/V1	750 m	250 m	585 m	295 m	1470 m	735 m
DS-2TD2836-50/V1	1500 m	500 m	1170 m	590 m	2940 m	1470 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)
DS-2TD2836-25/V1	2255 m	735 m	564 m	184 m	282 m	92 m
DS-2TD2836-50/V1	4510 m	1471 m	1127 m	368 m	564 m	184 m

Dimensions

