

DS-2TD2235D-25/50

Thermal + Optical Bi-Spectrum Network Outdoor Bullet Camera

- Dual Imager, Thermal and Visible Spectrum Camera System
- Matched Field of View Lenses
- 384 x 288 Resolution
- Vanadium Oxide Uncooled FPA
- 25 mm and 50 mm Lens Options
- NETD <50 mk
- Adaptive AGC
- Dynamic Detail Enhancement
- Visible Imager: 1/1.8" CMOS
- Smart IR Array, 393 ft (120 m) Range
- Smart Features
 - Line Crossing, Intrusion, Region Entrance/Exit
 - Temperature Exception
 - Advanced Fire Detection
- Edge Recording
- 3D DNR, EIS, Defog
- Region of Interest Encoding (ROI)
- Wall Mount Included
- IP66
- 24 VAC, 40 W (power supply included)



The Hikvision DS-2TD2235D-25 and DS-2TD2235D-50 Thermal + Optical Bi-Spectrum network bullet cameras offer thermal as well as optical imaging in a single unit. These versatile and powerful camera systems feature 384 x 288 resolution thermal imaging cameras with a choice of 25 or 50mm, as well as a 2MP optical camera with matched, fixed field of view lenses, to provide the ultimate in 24/7 video capture for demanding perimeter applications.

Smart Detection functions include intrusion detection, line crossing detection, region entrance detection, region exiting detection, audio exception detection, benefitting users with great improvement in security efficiency and, more importantly, with key events and objects being recorded for further forensic needs.

Additional features include temperature on alarm and advanced fire detection. The temperature on alarm feature allows users to program up to 10 spots or zones within the thermal image to monitor, record and receive alerts on over temperature conditions.

Image enhancement features include defog, high light compensation, and EIS (Electronic Image Stabilization).

Available Models:

- DS-2TD2235D-25 (25 mm Lens)
- DS-2TD2235D-50 (50 mm Lens)



Specifications

	DS-2TD2235D-25	DS-2TD2235D-50
Thermal Module		
Image Sensor	Vanadium Oxide Uncooled Focal Plane Detectors	
Maximum Resolution	384 × 288	
Response Waveband	8 to 14µm	
NetD	<50 mk (@25° C, f/=1.0)	
Lens (Focal Length)	25 mm	50 mm
Mrad	1 mrad	0.5 mrad
Field of View	21.7° × 16.4°	11.0° × 8.2°
Minimum Focusing Distance	13 m	50 m
F number	1.0	
Power-off memory	Supported	
Optical Module		
Maximum image resolution	1920 × 1080	
Image Sensor	1/1.8" Progressive Scan CMOS	
Minimum Illumination	Color: 0.002 Lux @ (F1.2, AGC ON), B/W: 0.0002 Lux @ (F1.2, AGC ON)	
Focal Length	25 mm	36 mm
Infrared		
IR distance	120m	
IR intensity	Automatically adjusted	
Main stream	Optical: 50 Hz: 25 fps (1920 × 1080), 25 fps (1280 × 960), 25 fps (1280 × 720); Optical: 60 Hz: 30 fps (1920 × 1080), 30 fps (1280 × 960), 30 fps (1280 × 720); Thermal: 25 fps (384 × 288)	
Sub stream	Optical: 50 Hz: 25 fps (704 × 576), 25 fps (352 × 288), 25 fps (176 × 144); Optical: 60 Hz: 30 fps (704 × 480), 30 fps (352 × 240), 30 fps (176 × 120); Thermal: 25 fps (160 × 120)	
Video compression	H.264 / MJPEG / MPEG4, H.264 encoding with Baseline / Main / High Profile	
Audio compression	G.711u / G.711a / G.722.1 / MP2L2 / G726 / PCM	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TC P, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour	
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	1 inputs (0-5vDC)	
Alarm output	1 relay outputs, alarm response actions configurable	
Alarm action	SD recording / relay output / smart capture / FTP upload / email linkage	
Audio input	1 microphone in / line in interface. Line input: 2 to 2.4 V[p-p], output impedance: 1 KΩ ± 10%	
Audio output	Line level, impedance: 600 Ω	
Ethernet	1 RJ45 10M/100M self-adaptive Ethernet interface	
SD memory card	Built-in microSD card slot, support microSD / SDHC / SDXC card (up to 64G), support manual / alarm recording	
RS485 protocols	Half-duplex; HIKVISION, PELCO-P, PELCO-D, self-adaptive	
Application programming	Open-ended API, support ONVIF, PSIA, CGI, HIKVISION SDK and third-party management platform	
Client	iVMS-4200	
Web browser	IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+	
General		
Menu Language	English	
Power	24 VAC, 40 W maximum(power supply included)	
Working Temperature / Humidity	-40° F to 131° F (-40° C to 60° C), humidity 90% or less (non-condensing)	
Protection Levels	IP66; TVS 6000 V lightning protection, surge protection, voltage transient protection	
Weight	23.15 lbs (10.5 kg)	

Range Performance¹

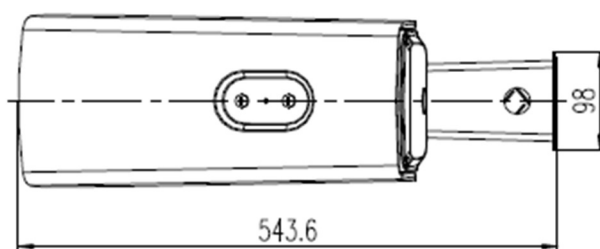
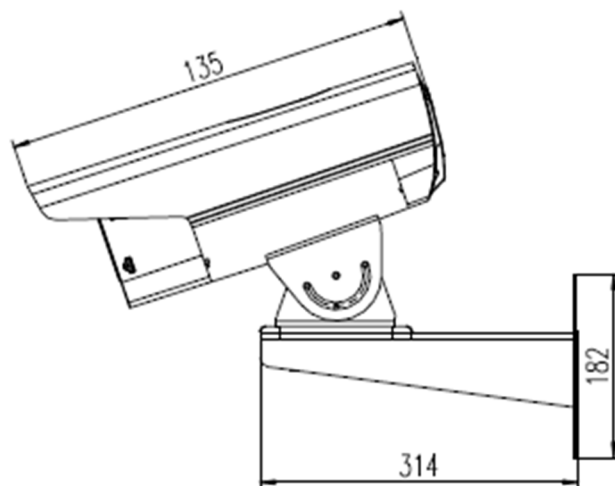
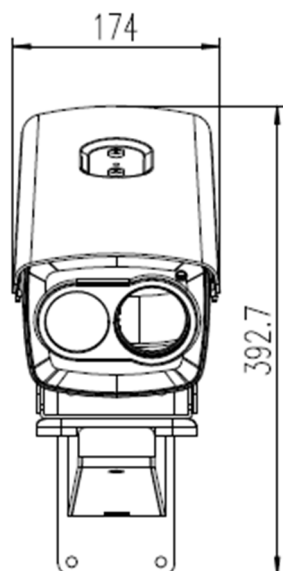
Standard Range Table	Model			
	DS-2TD2235D-25		DS-2TD2235D-50	
Johnson Criteria	Human	Vehicle	Human	Vehicle
Detection	1,640 ft (500 m)	5,030 ft (1,533 m)	3,281 ft (1,000 m)	10,062 ft (3,067 m)
Recognition	410 ft (125 m)	1,257 ft (383 m)	820 ft (250 m)	2,516 ft (767 m)
Identification	207 ft (63 m)	630 ft (192 m)	410 ft (125 m)	1,257 ft (383 m)

Smart Functions Range Table	Line Cross/Intrusion/Region Entrance-Exit	Object	Model	
			DS-2TD225D-25	DS-2TD2235D-50
Optimized to Johnson Criteria (Recognition)		Human	410 ft (125 m)	820 ft (250 m)
		Vehicle	1,257 ft (383 m)	2,516 ft (767 m)
Temperature Exception	Accuracy at 5 × 5 pixels	Size of Point	Max Range	Max Range
		2 m × 2 m	1,312 ft (400 m)	2,626 ft (800 m)
Advanced Fire Detection	Accuracy at 2 × 2 pixels	Size of Point	Max Range	Max Range
		2 m × 2 m	3,281 ft (1,000 m)	6,562 ft (2,000 m)
		1 m × 1 m	1,640 ft (500 m)	3,281 ft (1,000 m)

¹Range performance values are calculated under ideal conditions and are not a guarantee of performance.



Dimensions



Unit: mm

Accessories

