

### DS-2TD2866-xx

### Thermal and Optical Bi-Spectrum Network Bullet Camera





- 640 x 512 Thermal/1080p Optical Resolution
- Vanadium Oxide Uncooled Focal Plane Arrays
- 25 mm and 50 mm Lens Options
- NETD < 40 mk</li>
- Adaptive AGC, 3D DNR
- Dynamic Detail Enhancement
- Smart Features:
  - Line Crossing, Intrusion, Region Entrance/Exit
  - Temperature Exception
  - Advanced Fire Detection
- Temperature Range: -4° to 302° F (-20° to 150° C)
- Temperature Accuracy: Maximum (±8° C, ±2%)
- Integrated Bracket and Junction Box
- IP66 Protection
- 24 VAC, 10 W (22 W with De-Icing Heater)

The Hikvision DS-2TD2866-xx Thermal and Optical Bi-Spectrum Network Bullet Camera uses a vanadium oxide uncooled focal plane sensor to enhance thermal image quality.

The high sensitivity sensor has 640 x 512 thermal/1080p optical resolution and features contrast adjustment for optimized images. AGC (Automatic Gain Control), 3D DNR (Dynamic Noise Reduction), and Dynamic Detail Enhancement further enhance image quality. Additionally, the 1080p sensor provides a matched field of view for unparalleled detailed images.

This camera also features advanced fire detection and a wide range of Smart functions, including temperature exception, line crossing, intrusion, and region entrance and exit, benefitting users with great improvements in security efficiency and, more importantly, with key events and objects being recorded for further forensic needs.

The camera can be supplied with a 10 mm or 15 mm lens to cover a variety of needs.

#### Available Models:

DS-2TD2866-25 (25 mm lens) DS-2TD2866-50 (50 mm lens)





















<u>pecifications</u>					
	DS-2TD2866-25	DS-2TD2866-50			
Thermal Module					
Image Sensor	Vanadium oxide uncooled focal plane arrays				
Maximum Resolution					
Detector Pitch	17 µm				
Response Waveband					
	<40 mk (@ 0.04° C, F#=1.0)				
Lens (Focal Length)	25 mm	50 mm			
	0.68 mrad	0.34 mrad			
	24.55° x 19.75°	12.42° x 9.95°			
Minimum Focusing Distance					
f/ Number	1.0				
Optical Module	1000 1000				
Maximum Image Resolution					
	1/2.8" progressive scan CMOS				
	Color: 0.001 lux @ [f/1.2, AGC on], B/W: 0.0001 lux @ (f/1.2, AGC on)				
	1s to 1/100,000s	17 mm			
Lens (Focal Length)		13 mm			
	43° x 25° (H x V) 120 dB	24° x 13.7° (H x V)			
	IR cut filter with auto switch				
Image Function	IN CULTIMET WITH AUTO SWITCH				
	Thermal view can be overlaid with optical channel of	dataile			
	Thermal and optical image PIP details can be comb				
Smart Function	mematana opticat inage i ir actaits carrie come	The different mage overlayed with optical mage			
	Supports 4 VCA rule types (line crossing intrusion	region entrance, and region exiting), and up to 8 VCA rules for each scene			
	Supports 3 temperature measurement rule types, and 21 rules [10 points, 10 regions, and 1 line) for each scene				
	-4° to 302° F (-20° to 150° C)	110 21 1000 (10 points) 10 10 giorio, dila 1 mile, 101 000 il 000 il 0			
Temperature Accuracy					
	Dynamic fire point detection, supports up to 10 fire	points			
Infrared					
IR Distance	Up to 330 ft (100 m)				
IR Intensity and Angle	Auto adjust				
Network					
Main Stream		260), 25 fps (1280 x 720); 60 Hz: 30 fps (1920 x 1080), 30 fps (1280 x 960), 30 fps (1280 x 720)			
0.1.01	Thermal: 50 fps (640 x 512)				
Sub-Stream		(176 x 144); 60 Hz: 30 fps (704 x 480), 30 fps (352 x 240), 30 fps (176 x 120)			
Video Compression	Thermal: 50 fps (640 x 512)	/II 26//MIDEC			
	H.265+/H.264+ (Baseline/Main/High Profile), H.265/H.264/MJPEG				
	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM				
Simultaneous Live View		IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE			
	Up to 32 users, 3 levels: administrator, operator, user				
	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering				
Integration	occi admonication (ib and 1 11), Thie address bind	ng, mm o ononyphion, need ood addood oo nitot, m dada oo o nitothing			
	Up to 2-ch inputs (0 to 5 VDC)				
	Up to 2-ch relay outputs, alarm response actions c	onfigurable			
	SD recording/relay output/smart capture/FTP upload/email linkage				
Audio Input	One 3.5 mm microphone in/line in interface. Line input: 2-2.4 V[p-p], output impedance: 1 kΩ ± 10%				
Audio Output	Linear level; impedance: $600\Omega$				
	One reset button				
Ethernet	One-port RJ45 10M/100M self-adaptive Ethernet interface				
	Built-in microSD/SDHC/SDXC card slot, up to 128 GB; supports manual/alarm recording				
	1.0 V [p-p]/75 Ω, PAL/NTSC/BNC				
11 0 0	Open-ended API, supports ISAPI, HIKVISION SDK, and third-party management platforms				
	iVMS-4200				
	IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+				
General	5.00				
	English				
	24 VAC ±25%, 12 VDC ±20%, two-core terminal block PoE (802.3at, class 4)				
		n 10 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			
	From -40° to 140° F (-40° to 65° C); humidity: 90% or less (non-condensing)  IP66 standard; TVS 6000V lightning protection, surge protection, and voltage transient protection				
DITIETISIONS	21.06" x 6.73" x 15.75" (535 mm x 171 mm x 400 mm)				



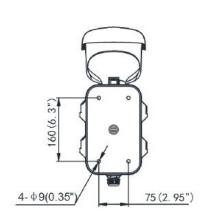
Weight 13.23 lbs (6 kg)

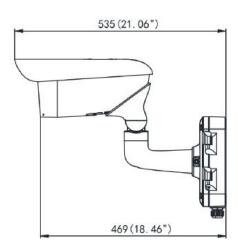
# Range Performance<sup>1</sup>

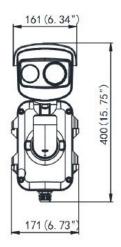
Standard Range Table	Model				
	DS-2TD2866-25		DS-2TD2866-50		
Johnson Criteria	Human	Vehicle	Human	Vehicle	
Detection	2,411 ft (735 m)	7,400 ft (2,255 m)	4,826 ft (1,471 m)	14,797 ft (4,510 m)	
Recognition	604 ft (184 m)	1,850 ft (564 m)	879 ft (368 m)	3,698 ft (1,127 m)	
Identification	302 ft (92 m)	925 ft (282 m)	604 ft (184 m)	1,850 ft (564 m)	

Smart Functions Range Table		Model	
Line Cross/Intrusion/ Region Entrance-Exit	Object	DS-2TD2866-25	DS-2TD2866-50
Optimized to Johnson Criteria (Recognition)	Human	1,200 ft (366 m)	2,362 ft (720 m)
	Vehicle	3,372 ft (1,028 m)	6,752 ft (2,058 m)
Temperature Exception	Size of Point	Maximum Range	Maximum Range
Accuracy at 5 x 5 pixels	2 m x 2 m	1,919 ft (585 m)	3,838 ft (1,170 m)
	1 m x 1 m	968 ft (295 m)	1,936 ft (590 m)
Advanced Fire Detection	Size of Point	Maximum Range	Maximum Range
Accuracy at 2 x 2 pixels	2 m x 2 m	4,823 ft (1,470 m)	9,646 ft (2,940 m)
	1 m x 1 m	2,411 ft (735 m)	4,823 ft (1,470 m)

## **Dimensions**







 $<sup>^{\,1}\,</sup>$  Range performance values are calculated under ideal conditions and are not a guarantee of performance.