

### DS-2TD8166-75C2F/V2

Thermal & Optical Bi-spectrum Network Stable PTZ Camera

# **DeepinView**















Hikvision DS-2TD8166-75C2F/V2 Thermal & Optical Bi-spectrum Network Stable PTZ Camera equipped with built-in GPU which support intelligent perimeter protection algorithm, can realize high precision VCA detection and real-time alarm. It is applied to frontier protection occasions, maritime protection occasions, port monitoring, airport perimeter security, 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)
- Smart tracking: Panorama tracking, Event tracking and Multi-scene patrol tracking
- Smart tracking linkage: thermal view and optical view
- Powerful perimeter protection 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





# **Specifications**



	Model	DS-2TD8166-75C2F/V2				
Parameter	Model	Thermal & Optical Bi-spectrum Network Stable PTZ Camera				
Thermal module	Image sensor	Vanadium Oxide Uncooled Focal Plane Arrays				
	Max. Resolution	640 × 512				
	Detector Pitch	17μm				
	Response	8μm to 14μm				
	waveband NETD	< 40mk (@25°C,F#=1.0)				
	Lens (focal length)	75 mm				
	MRAD	0.23 mrad				
	Field of View Min. Focusing	$8.3^{\circ} \times 6.64^{\circ}$				
	Distance	8 m				
	F number	1.0				
	Image Sensor	1/2.8" Progressive Scan CMOS				
	Min. Illumination	Color : 0.05Lux @ (F1.8, AGC ON) B/W : 0.01Lux @ (F1.8, AGC ON)				
	Focal Length	6.7-330mm, 49x				
	Digital Zoom	16 X				
	Field of View	41.3° to 1.2° (Wide-Tele)				
	Min. Working	10-1500mm(Wide-Tele)				
	Distance Aperture Range	F1.8-F6.1				
Optical	Focus Mode	Auto / Semiautomatic / Manual				
camera	WDR	Digital				
	Shutter Time	PAL: 1-1/30,000s / NTSC: 1-1/30,000s				
	White Balance	Auto / Manual /ATW/Indoor/Outdoor/Daylight lamp/Sodium lamp				
	Day & Night	IR Cut Filter				
	Privacy Mask	24 privacy masks programmable; optional multiple colors and mosaics				
	Optical Defog	Yes				
	Enhancement	3D DNR Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), 10 scenes and 8 VCA				
	VCA	rules for each scene.				
	Temperature Measurement	Support 3 temperature measurement rule types, 273 presets as scene, 21 rules of each scene (10 points, 10 areas, and 1 line)				
Smart function	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				
	Movement Range	Pan: 360° Continuous Rotate; Tilt: From -45 ° to + 45 ° (auto flip)				
	Pan Speed	Configurable, From 0.01°/s to 40°/s				
	Tilt Speed	Configurable, From 0.01°/s to 20°/s				
	Proportional Zoom	Yes				
	Presets	300				
PTZ	Patrol Scan	8; Up to 32 Presets Per Patrol				
r i Z	Pattern Scan	4: More Than 10 Minutes Per Pattern				
	Power Off Memory	Yes				
	Park	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan				
	PT Status	Turn On/Turn Off				
		Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Doom				
	Scheduled Task	Reboot/Doom Adjust/Aux Output  Optical Light: 50Hz:25fps(1920×1080), 25fps(1280×960), 25fps(1280×720)				
Network	Main Stream	Optical Light: 60Hz:30fps(1920×1080), 30fps(1280×960), 30fps(1280×720) Thermal: 50fps (640 × 512)				
	Sub stream	50Hz:25fps (704 × 576), 25fps (352 × 288), 25fps (176 × 144) 60Hz:30fps (704 × 480), 30fps (352 × 240), 30fps (176 × 120) Thermal: 50fps (640 × 512)				
	Video compression	H.265+/ H.264+/H.265/H.264/MJPEG, 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, 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					
Integrati on	Alarm Input	Up to 7-ch Relay Input (0-5V DC)					
	Alarm Output	Up to 2-ch; Support Alarm Linkage					
	Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage					
	Audio Input	LINE_IN Input/MIC Input; Peak: From 2 to 2.4V[p-p]; Output Impedance: 1KΩ±10%					
	Audio Output	Linear Level; Impedance: 600Ω					
	Communication Interface	Built-in RJ45; 10M/100M Ethernet Interface					
	Onboard Storage	Built-in 64GB SD Card; Support Manual/Alarm Recording					
	Analog Video Output	1.0V [p-p]/75Ω, PAL/NTSC/BNC					
	RS485	Half-Duplex; HIKVISION, PELCO-P and PELCO-D Self-adaptive					
	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					
	Menu	English					
General	Wiper	Support					
	Power	48V DC/5A, 220W					
	Work Temperature/Humi dity	From -40°C to 60°C (-40°F to 140°F); Humidity: 90% or Less					
	Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection					
	Dimension	559.2 mm × 380 mm × 239.8 mm (22.02 '' × 14.96 '' × 9.44 '')					
	Weight	Approx. 42kg (92.6 lb)					

## 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  $17~\mu m$  detector pitch.

Detection	Detection	Recognition	Recognition	Identification	Identification
Range	Range	Range	Range	Range	Range
(Vehicles:	(Humans:	(Vehicles:	(Humans:	(Vehicles:	(Humans:
1.4×4.0m)	1.8×0.5m)	1.4×4.0m)	1.8×0.5m)	1.4×4.0m)	1.8×0.5m)
6765m	2206m	1691m	551m	846m	276m



### **Smart functions Range Table**

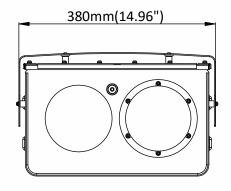
Note: The table below is only for reference, the performance varies from model to model, and the specific data is based on 17 µm detector pitch.

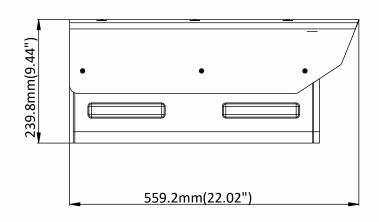
VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Fire Detection
(Vehicles:	(Humans:	Measurement	measurement	(Object:2×2 m)	(Object:1×1 m)
1.4×4.0m)	1.8×0.5m)	(Object:2×2 m)	(Object:1×1 m)		
2250m	750m	1775m	885m	4410m	2205m

#### **Order Models**

DS-2TD8166-75C2F/V2

### **Dimensions**





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