

DS-2TD8166-180ZE2F/V2

Thermal & Optical Bi-spectrum Network Stable PTZ Camera

DeepinView



Hikvision DS-2TD8166-180ZE2F/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 (0.05°C/32.09°F)
- 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

X



	Model	DS-2TD8166-180ZE2F/V2
Parameter		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	<pre><40mk (@25°C.F#=1.0)</pre>
	Lens (focal length)	45 mm to 180 mm
	MRAD	0.38 to 0.09 mrad
	Field of View Min. Focusing	WIDE: 13.8° × 11°; TELE:3.46° × 2.77°
	Distance	5 m
	Aperture	F1.2
	Image Sensor	1/1.8 " Progressive Scan CMOS
	Min. Illumination	Color : 0.005 Lux @ (F3.5, AGC ON) B/W : 0.0005 Lux @ (F3.5, AGC ON)
	Focal Length	12.5-775 mm, 62 x
	Field of View	31.5 ° × 23.9 ° to 0.51 ° × 0.39 ° (Wide-Tele)
	Min. Working	5 m (Wide-Tele)
	Distance Aperture Range	F3.5 to Close
Optical	Focus Mode	Auto / Semiautomatic / Manual
camera	WDR	Digital
cumeru	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	± 8 °C (14.4 °F)
	accuracy 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
DTTT	Patrol Scan	
PTZ		8; Up to 32 Presets Per Patrol
	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
Network	Main Stream	Optical Light: 50Hz:25fps(1920×1080), 25fps(1280×960), 25fps(1280×720) 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, 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	Yes				
	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	649.2 mm × 438 mm × 261.3 mm (25.56 '' × 17.24 '' × 10.29 '')				
	Weight	Approx. 60kg (132.3 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 µm 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)
16235 m	5294 m	4059 m	1324 m	2029 m	662 m



Smart functions Range Table

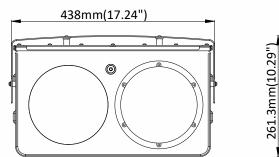
Note: The table below is only for reference, the performance varies from model to model, and the specific data is based on 17 µm detector pitch.

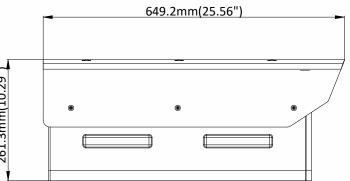
VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Fire Detection
(Vehicles:	(Humans:	Measurement	measurement	(Object:2×2 m)	(Object:1×1 m)
1.4×4.0m)	1.8×0.5m)	(Object:2×2 m)	(Object:1×1 m)		
5400m	1800m	4212m	2124m	10584m	5292m

Order Models

DS-2TD8166-180ZE2F/V2

Dimensions





Distributed by

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