

# DH-TPC-SD8621

# Thermal Network Hybrid Speed Dome Camera



- · 640x512 VOx uncooled thermal sensor technology
- · Athermalized Lens(thermal), Focus-free
- · 1/2.8" 2Megapixel progressive scan CMOS
- · Powerful 45X optical zoom
- · Support fire detection & alarm
- · Max 240°/s pan speed, 360° endless pan rotation
- · Up to 300 presets, 5 auto scan, 8 tour, 5 pattern
- · 7/2 alarm in/out
- · Micro SD memory, IP66













# **System Overview**

Featuring a dual lens speed dome camera, this series provides an all-in-one solution that is especially beneficial for long distance video surveillance in outdoor applications. Together with Dahua Thermal and Starlight technology, the camera's long range capabilities are able to be utilized even at night. The series combines one thermal camera for monitoring in total darkness and one camera with Starlight functionality and a motorized lens for confirming details up close.

#### **Functions**

#### Uncooled Vox Technology

Dahua thermal cameras use uncooled Vox sensor technology. Their small size and better performance make them a cost-effective solution for thermal security.

#### **High Sensitivity**

High thermal sensitivity (<40mK) allows cameras to capture more image details and temperature difference information.

#### Fire Detection & Alarm

With built-in fire detection functionality, the camera has the ability to detect fires from long range. Because thermal cameras are sensitive to temperature, they provide higher fire detection accuracy than standard cameras, making them particularly fit for applications such as forest fire prevention.

#### Intelligent Video System (IVS)

IVS is a built-in video analytics algorithm that delivers intelligent functions to monitor a scene for tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area.

#### Environmental

With a temperature range of-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

#### Protection

The camera allows for  $\pm 15\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6 kV lightning rating provides effective protection for both the camera and its structure against lightning.



Manual Control Speed



<b>Technical Specification</b>				Preset	Speed	Pan: 0.1° ~240° /s ;Tilt: 0.1° ~200° /s
Thermal Camera		Preset		300		
Image Sensor	Uncooled VOx Microbolometer		PTZ M	ode	5 Auto Scan, 8 Tour, 5 Pattern, Auto Pan	
Effective Pixels	640(H)x512(V)		Speed	Setup	Human-oriented focal length/ speed adaptation	
Pixel Size	17um			Power	Up Action	Auto restore to previous PTZ and lens status
Thermal Sensitivity(NETD)	<40mK					after power failure  Activate Preset/ Scan/ Tour/ Pattern if there is no
Spectral Range	8~14um			Idle M	otion	command in the specified period
Image Setting	Brightness/Sharp	oness/ROI/AGC/FF	C/3D DNR	Protoc	col	DH-SD, Pelco-P/D (Auto recognition)
Color Palettes		ackhot/Ironrow/Ico /Globow/Iconbow		Vide	Oression	H.265 / H.264 / MJPEG
Thermal Lens						Main Stream:
Lens Type	Fixed/F1.0					Thermal: 1280x1024 / 720P / 640x512 @25/30fps Visible: 1080P / 720P / D1 @25/30fps
Focus Control	Athermalized, Fo	ocus-free		Frame	e Rate	Sub Stream:
Focal Length	25mm	35mm	50mm			Thermal: 640x512 / 320x256 @25/30fps Visible: D1 / CIF @25/30fps
Angle of View	H:24.6°, V:19.8°	H:17.6°, V:14.1°	H:12.4°, V:9.9°	Bit Rat	te Control	CBR / VBR
Effective Distance 1	D(2):735m R(3):189m	D:1030m R:265m	D:1471m R: 378m	Bit Rat	te	H.264: 640 ~8192Kbps
Man(1.8m*0.5m)	1 (4) :95m	I: 132m	I: 189m	Day/N	ight	Auto(ICR) / Color / B/W
Effective Distance	D:1634m R:420m	D:2288m R: 588m	D:3268m R: 840m	BLC M	ode	BLC / HLC / DWDR
Vehicle(4m*1.4m)	I :210m	I : 294m	I : 420m	White	Balance	Auto / ATW / Indoor / Outdoor / Manual
Visible Camera				Noise	Reduction	2D/3D DNR
Image Sensor	1/2.8" CMOS	1/2.8" CMOS		Motio	n Detetion	Off / On (4 zone, Rectangle)
Effective Pixels	1920(H)x1080(V	1920(H)x1080(V)		Region	n of Interest	Off / On (4 zone)
Electronic Shutter Speed	1/1 ~ 1/30,000s		Electro (EIS)	onic Image Stabilization	Off / On	
Min. Illumination	0.005Lux@F1.6(Color), 0.0005Lux@F1.6(B/W)		Defog		Off / On	
S/N Ratio	More than 55dB		Digital	Zoom	16x	
IR Distance	100m (328ft)	100m (328ft)		Flip		180°
IR On/Off Control	Auto / Manual	Auto / Manual		Mirror	r	Off / On
IR LEDs	4			Privac	y Masking	Off / On (4 area, Rectangle)
Visible Lens				Audi	0	
Focal Length	3.95mm~177.7mm		Compr	ression	G.711A / G.711Mu / AAC / PCM	
Max Aperture	F1.6 ~ F4.95		Intel	ligence		
Angle of View	H: 70.3° ~ 1.8°		IVS	ngenee	Tripwire, Intrusion	
Optical Zoom	45X		Advan	ced Intelligent Functions	Fire detection & alarm, Cold/Hot spot trace, Human/Vehicle classification, Auto Tracking	
Focus Control	Auto / Manual			Trackin	ng Trigger Mode	Manual / Auto (alarm triggered)
Close Focus Distance	100mm~ 1000mm (0.33ft~3.28ft)		Trackii	ng Trigger Event	Targeting, Tracking, Recording, Snapshot, Alarm, etc	
PTZ	22.311					5, 5, 1, ,,
Pan/Tilt Range	Pan: 0° ~ 260° ~	ndless;Tilt:-10° ~ 9	0°			
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Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s



Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, ONVIF
Interoperability	ONVIF Profile S&G, API
Streaming Method	Unicast / Multicast
Max. User Access	10 Users / 20 Users
Edge Storage	Micro SD (256GB) Memory status display (Normal / Error / Active / Formatting / Lock), NAS (Network Attached Storage), Local PC for instant recording
Web Viewer	>IE8, <chrome42, <firefox42<="" td=""></chrome42,>
Management Software	Smart PSS, DSS
Smart Phone	Android, iOS
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Certification	CE (EN 60950:2000) FCC (FCC Part 15 SubpartB )
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#### Interface

Video Interface	1 Port (CVBS/BNC)
Audio Interface	1/1 In/Out
RS485	Support
Alarm	7/2 In/Out

## Electrical

Power Supply	AC 24V/3A±15%
Power Consumption	17W, Max. 38W (Heater, LEDs on)

#### Environmental

Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 95% RH $^{*}$ Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C ~+70°C (-40°F ~ +158°F)) / Less than 95% RH
Ingress Protection	IP66, IK10(Excluding wiper and thermal lens)

#### Construction

Casing	Metal
Dimensions	Ф240mm x 382mm (Ф9.45" x 15.04")
Net Weight	6.8Kg (14.99 lb)
Gross Weight	9.5Kg (20.94 lb)

- 1 Effective distance values shown are nominal values and should be used as estimates(2) D:Detection Distance

  (3) R: Recognition Distance

  (4) I: Identification Distance

Ordering Information			
Туре	Part Number	Description	
	DH-TPC-SD8621P-B25Z45 DH-TPC-SD8621N-B25Z45	Thermal: 640x512 25mm lens Visible: 2MP 45X	
DH-TPC- SD8621	DH-TPC-SD8621P-B35Z45 DH-TPC-SD8621N-B35Z45	Thermal: 640x512 35mm lens Visible: 2MP 45X	
	DH-TPC-SD8621P-B50Z45 DH-TPC-SD8621N-B50Z45	Thermal: 640x512 50mm lens Visible: 2MP 45X	

### **Accessories**

#### Included:



Mount Adapter



AC24V/3A Power Supply



PFB303W Wall Mount

#### Optional:



PFA140 Power box



PFB300C Ceiling Mount



PFA120 Junction Box

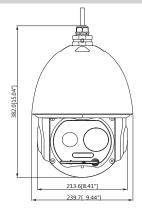


PFA150 Pole Mount



Corner Mount

# Dimensions (mm)







# **Mounting Type**

Ceiling Mount	Junction Mount
PFA111 + PFB300C	PFA111 + PFB303W + PFA120
Power Box Mount	Pole Mount
PFA111 + PFB303W + PFA140	PFA111 + PFB303W + PFA150
Corner Mount	Parapet Mount
PFA111 + PFB303W + PFA151	PFA111+ PFB303S