

DH-TPC-SD8620-B

Thermal Network Hybrid Speed Dome Camera



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.

- · 640x512 VOx uncooled thermal sensor technology
- · Athermalized Lens(thermal), Focus-free
- · 1/1.9" 2Megapixel progressive scan Sony CMOS
- · Powerful 30x 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













Auto-tracking

The camera supports auto-tracking. The tracking action can be triggered manually or automatically by defined rules. Once rules are triggered, the camera can zoom in and track the defined target automatically.

Environmental

With a temperature range of-40 °C to +70 °C (-40 °F to +158 °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



Technical Specification				Preset Speed	Pan: 0.1° ~240° /s ;Tilt: 0.1° ~200° /s	
Thermal Camera			Preset	300		
Image Sensor	Uncooled VOx N	Uncooled VOx Microbolometer			PTZ Mode	5 Auto Scan, 8 Tour, 5 Pattern, Auto Pan
Effective Pixels	640(H)x512(V)	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@f/1.0	<40mK@f/1.0				after power failure Activate Preset/ Scan/ Tour/ Pattern if there is no
Spectral Range	7~14um				Idle Motion	command in the specified period
Image Setting	Brightness/Shar	Brightness/Sharpness/ROI/AGC/FFC/3D DNR			Protocol	DH-SD, Pelco-P/D (Auto recognition)
Color Palettes	· ·	14(Whitehot/Blackhot/Ironrow/Icefire/ Fusion/Rainbow/Globow/Iconbow1/ Iconbow2 .etc)			Video	H.264 / MJPEG
Thermal Lens					·	Main Stream:
Lens Type	Fixed					Thermal: 1280x1024(default) / 720P @1~25/30fps Visible: 1080P(default) / 720P @1~25/30fps
Focus Control	Athermalized, Fo	ocus-free			Frame Rate	Sub Stream:
Focal Length	25mm	35mm	50mm			Thermal: 640x512(default) / 320x256 @1~25/30fps Visible: CIF(default) / D1 @1~25/30fps
Angle of View	H:24.6°, V:19.8°	H:17.2°, V:13.8°	H:12.3°, V:9.9°		Bit Rate Control	CBR / VBR
Effective Distance 1	D②:1000m	D:1300m	D:1700m		Bit Rate	H.264: 640 ~8192Kbps
Man(1.8m*0.5m)	KI31:750M R:370M		R: 430m I : 220m		Day/Night	Auto(ICR) / Color / B/W
Effective Distance	D:3000m R:720m	D:4000m R: 1000m	D:5000m		BLC Mode	BLC / HLC / WDR
Vehicle(2.3m*2.3m)	1:360m	I : 500m	R: 1400m I : 700m		White Balance	Auto / ATW / Indoor / Outdoor / Manual
Visible Camera	Visible Camera			Noise Reduction	3D DNR	
Image Sensor	1/1.9" Sony CM0	OS			Motion Detetion	Off / On (4 zone, Rectangle)
Effective Pixels	1944(H)x1092(V)			Region of Interest	Off / On (4 zone)
Electronic Shutter Speed	1/1 ~ 1/30,000s	1/1~1/30,000s			Electronic Image Stabilization (EIS)	NA
Min. Illumination	0.001Lux@F1.5(0.001Lux@F1.5(Color), 0.0001Lux@F1.5(B/W)			Defog	Off / On
S/N Ratio	More than 55dB	More than 55dB			Digital Zoom	24x
IR Distance	150m (492ft)				Flip	180°
IR On/Off Control	Auto / Manual				Mirror	Off / On
IR LEDs	4				Privacy Masking	Off / On (4 area, Rectangle)
Visible Lens					Audio	
Focal Length	6mm~180mm	6mm~180mm			Compression	G.711A / G.711Mu / AAC
Max Aperture	F1.5 ~ F4.3	F1.5 ~ F4.3			Intelligence	
Angle of View	H: 59° ~ 2.4°	H: 59° ~ 2.4°			IVS	Tripwire, Intrusion, Object Abandoned/Missing
Optical Zoom	30x	30x			Advanced Intelligent Functions	Fire detection & alarm
Focus Control	Auto / Manual	Auto / Manual			Tracking Trigger Mode	NA
Close Focus Distance	100mm~ 1000m	100mm~ 1000mm (0.33ft~3.28ft)			Tracking Trigger Event	NA
PTZ		,				
Pan/Tilt Range	Pan: 0° ~ 360° 0	ndless:Tilt:_10° ~ 0	no°			
rany me nange	Tan. 0 300 en	Pan: 0° ~ 360° endless;Tilt:-10° ~ 90°				

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, SMMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, ONVIF
Interoperability	ONVIF Profile S&G, PSIA, CGI
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	<ie11, <chrome45,="" <firefox52<="" td=""></ie11,>
Management Software	Smart PSS, DSS
Smart Phone	Android, los
Certifications	
Certification	CE (EN 60950:2000) FCC (FCC Part 15 SubpartB)
Interface	
Video Interface	1.0Vp-p/75 Ω , PAL / NTSC (HDCVI Optional)
Audio Interface	Input/Output 1 Input / 1 Output
RS485	Support
Alarm	7/2 In/Out

Electrical

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

Environmental

Operating Condition	-40°C $^{\sim}$ +70°C (-40°F $^{\sim}$ +158°F) / Less than 95% RH * Start up should be done at above-40°C (-40°F)
Strorage Conditions	-40°C ~ +70°C (-40°F ~ +158°F)) / Less than 95% RH
Ingress Protection	IP66

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 estimatesonly. Exact value calculations depend on a wide variety of conditions.

 ②D:Detection Distance
- (3) R: Recognition Distance (4) I: Identification Distance

Ordering Information			
Туре	Part Number	Description	
DH-TPC- SD8620	DH-TPC-SD8620P-B25Z30 DH-TPC-SD8620N-B25Z30	Thermal: 640x512 25mm lens Visible: 2MP 30X	
	DH-TPC-SD8620P-B35Z30 DH-TPC-SD8620N-B35Z30	Thermal: 640x512 35mm lens Visible: 2MP 30X	
	DH-TPC-SD8620P-B50Z30 DH-TPC-SD8620N-B50Z30	Thermal: 640x512 50mm lens Visible: 2MP 30X	

Accessories

Included:



Mount Adapter



AC24V/3A Power Supply



PFB303W Wall Mount

Optional:



PFA140 Power box



PFB300C Ceiling Mount



PFA120 Junction Box

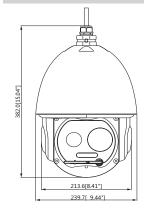


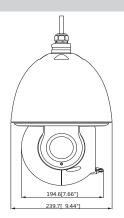
PFA150 Pole Mount



PFA151 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