



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.



Ultra Series | DH-TPC-SD8620-B

Manual Control Speed





Technical Specification	1			Pre	eset Speed	Pan: 0.1° ~240° /s ;Tilt: 0.1° ~200° /s
Thermal Camera			Pre	eset	300	
Image Sensor	Uncooled VOx Microbolometer			PTZ	Z Mode	5 Auto Scan, 8 Tour, 5 Pattern, Auto Pan
Effective Pixels	640(H)x512(V)			Spe	eed Setup	Human-oriented focal length/ speed adaptation
Pixel Size	17um	17um			wer Up Action	Auto restore to previous PTZ and lens status after power failure
Thermal Sensitivity(NETD)	<40mK@f/1.0	<40mK@f/1.0				Activate Preset/ Scan/ Tour/ Pattern if there is no
Spectral Range	7~14um	7~14um			e Motion	command in the specified period
Image Setting	Brightness/Shar	Brightness/Sharpness/ROI/AGC/FFC/3D DNR			otocol	DH-SD, Pelco-P/D (Auto recognition)
Color Palettes		14(Whitehot/Blackhot/Ironrow/Icefire/ Fusion/Rainbow/Globow/Iconbow1/ Iconbow2 .etc)			deo mpression	H.264 / MJPEG
Thermal Lens					mpression	
Lens Type	Fixed					Main Stream: Thermal: 1280x1024(default) / 720P @1~25/30f
Focus Control	Athermalized, Fo	ocus-free		Fra	Frame Rate	Visible: 1080P(default) /720P @1~25/30fps
Focal Length	25mm	35mm	50mm			Thermal: 640x512(default) / 320x256 @1~25/30 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)	R③:250m I ④ :125m	R:320m I:160m	R: 430m I : 220m	Dav	y/Night	Auto(ICR) / Color / B/W
Effective Distance	D:3000m	D:4000m	D:5000m	BLO	CMode	BLC / HLC / WDR
Vehicle(2.3m*2.3m)	R:720m I :360m	R: 1000m I : 500m	R: 1400m I : 700m	Wh	nite Balance	Auto / ATW / Indoor / Outdoor / Manual
Visible Camera				No	ise Reduction	3D DNR
Image Sensor	1/1.9" Sony CM0	OS		Mo	otion Detetion	Off / On (4 zone, Rectangle)
Effective Pixels	1944(H)x1092(V	1944(H)x1092(V)			gion of Interest	Off / On (4 zone)
Electronic Shutter Speed	1/1 ~ 1/30,000s	1/1 ~ 1/30,000s		Ele (Els	ctronic Image Stabilization	NA
Min. Illumination	0.001Lux@F1.5(0.001Lux@F1.5(Color), 0.0001Lux@F1.5(B/W)		De	fog	Off / On
S/N Ratio	More than 55dB	More than 55dB		Dig	ital Zoom	24x
IR Distance	150m (492ft)			Flip)	180°
IR On/Off Control	Auto / Manual			Mii	rror	Off / On
IR LEDs	4			Pri	vacy Masking	Off / On (4 area, Rectangle)
Visible Lens				Αι	ıdio	
Focal Length	6mm~180mm			Coi	mpression	G.711A / G.711Mu / AAC
Max Aperture	F1.5 ~ F4.3				. 11.	
Angle of View	H: 59° ~ 2.4°	H: 59° ~ 2.4°			telligence	Tripwire, Intrusion, Object Abandoned/Missing
Optical Zoom	30x	30x			vanced Intelligent Functions	Fire detection & alarm
Focus Control	Auto / Manual	Auto / Manual			cking Trigger Mode	NA
Close Focus Distance	100mm~ 1000mm (0.33ft~3.28ft)			Tra	cking Trigger Event	NA
PTZ						
Pan/Tilt Range	Pan: 0° ~ 360° er	ndless;Tilt:-10° ~ 9	0°			
		D 0 48 x2008 / Tily 0 48 xx200 /				

Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s

Ultra Series | DH-TPC-SD8620-B





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, 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/75Ω, 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)		

Note:	
_	

- ①Effective distance values shown are nominal values and should be used as estimates only. 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-SD8620P-B25Z30 DH-TPC-SD8620N-B25Z30	Thermal: 640x512 25mm lens Visible: 2MP 30X				
DH-TPC- SD8620	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

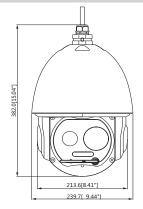


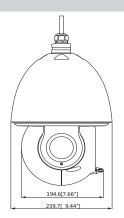
PFA150 Pole Mount



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