

DH-TPC-PT8620A-T

Thermal Network Hybrid Pan & Tilt Camera



System Overview

Featuring a dual lens Pan and Tilt 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.

Temperature Measurement

Dahua thermal cameras (-T models) provide remote temperature monitoring functionality with the ability to set temperature threshold alarms. Object temperatures can be monitored in daytime or at night, making them ideal for usage in power plant or oil extraction applications where overheating can be dangerous. When the temperature exceeds the set threshold, an alarm is triggered. The temperature range is between-40 $^{\circ}$ C to 550 $^{\circ}$ C (-40 $^{\circ}$ F to 1022 $^{\circ}$ F).

- · 640x512 VOx uncooled thermal sensor technology
- · Athermalized Lens(thermal), Focus-free
- · 1/1.9" 2Megapixel progressive scan Sony CMOS
- · Powerful 30x optical zoom
- · Support temperature measurement
- · Support fire detection & alarm
- · Max 160°/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, IP67













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.

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 IP67 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	1			Preset Speed	Pan: 0.1° ~160° /s ;Tilt: 0.1° ~60° /s
Thermal Camera				Preset	300
Image Sensor	Uncooled VOx Microbolometer			PTZ Mode	5 Auto Scan, 8 Tour, 5 Pattern, Auto Pan
Effective Pixels	640(H)x512(V)			Speed Setup	Human-oriented focal length/ speed adapta
Pixel Size	17um			Power up Action	Auto restore to previous PTZ and lens status after power failure
Thermal Sensitivity(NETD)	<40mK@f/1.0				Activate Preset/ Scan/ Tour/ Pattern if there
Spectral Range	7~14um			Idle Motion	command in the specified period
Image Setting	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					Marin Character
Lens Type	Fixed				Main Stream: Thermal: 1280x1024(default) / 720P @1~25
Focus Control	Athermalized, I	Focus-free		Frame Rate	Visible: 1080P(default) /720P @1~25/30fps Sub Stream:
Focal Length	25mm	60mm	100mm		Thermal: 640x512(default) / 320x256 @1~25 Visible: CIF(default) / D1 @1~25/30fps
Angle of View	H:25°, V:20°	H:10.4°, V:8.3°	H:6.2°, V:5°	Bit Rate Control	CBR / VBR
Effective Distance $\widehat{(1)}$	D②:1000m	D:2000m	D:3000m R:750m I :380m	Bit Rate	H.264: 640 ~8192Kbps
Man(1.8m*0.5m)	R③:250m I ④ :125m	R:510m I :260m		Day/Night	Auto(ICR) / Color / B/W
Effective Distance	D:3000m	D:6000m	D:8800m R:2300m I:1200m	BLC Mode	BLC / HLC / WDR
Vehicle(2.3m*2.3m)	R:720m R: 1600m I:360m I: 800m	R: 1600m I : 800m		White Balance	Auto / ATW / Indoor / Outdoor / Manual
Visible Camera				Noise Reduction	3D DNR
Image Sensor	1/1.9" Sony CN	MOS		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 ~ 1/30,000)s		Electronic Image Stabilization (EIS)	NA
Min. Illumination	0.001Lux@F1.5	5(Color), 0.0001Lu	x@F1.5(B/W)	Defog	Off / On
S/N Ratio	More than 55d	В		Digital Zoom	24x
IR Distance	150m (492ft)			Flip	180°
IR On/Off Control	Auto / Manual			Mirror	Off / On
IR LEDs	9			Privacy Masking	Off / On (4 area, Rectangle)
Visible Lens				Temperature Measuren	nent
Focal Length	6 ~ 180mm			Measurement Range	Low Gain: -40°C ~ +550°C
Max Aperture	F1.5 ~ F4.3			wicasarement nange	High Gain:-40°C ~ +160°C
Angle of View	H: 59° ~ 2.4°			Measurement Accuracy	Max (±2°C, ±2%)
				Measurement Mode	Spot / Line / Area
Optical Zoom Focus Control	30x Auto / Manual			Measurement Preset	Spot: 12 Line: 12 Area: 12 Support 12 rules per preset simultaneously
Close Focus Distance 100mm~ 1000mm (0.33ft~3.28ft)				Audio	
PTZ				Compression	G.711A / G.711Mu / AAC
Pan/Tilt Range	Pan: 0° ~ 360°	endless;Tilt:-40° ~	90°		,

Pan: 0.1° ~160° /s; Tilt: 0.1° ~60° /s



Intelligence		
IVS	Tripwire, Intrusion, Object Abandoned/Missing	
Advanced Intelligent Functions	Fire detection & alarm, Auto Tracking	
Tracking Trigger Mode	Manual / Auto (alarm triggered)	
Tracking Trigger Event	Targeting, Zoom, Tracking, Recording, Snapshot, Alarm and etc.	
Network		
Ethernet	RJ-45 (10/100Base-T)	
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SMMP, RTSP, RTP, SMTP, NTP, DHCP, DN PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x	
Interoperability	ONVIF Profile S&G, PSIA, CGI	
Streaming Method	Unicast / Multicast	
Max. User Access	10 Users / 20 Users	
Edge Storage	Micro SD (128GB) Memory status display (Normal / Error / Active / Formatting / Lock), NAS (Network Attached Storage), Local PC for instar	
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	24V AC ±15%	
Power Consumption	Max. 70W (24V AC, Heater 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	IP67	
Construction		
Casing	Metal	
Dimensions	345mm x 252mm x 470mm (13.58" x 9.92" x 18.50"	
Net Weight	13Kg (28.66lb)	
Gross Weight	25Kg (55.12lb)	

- ① Effective distance values shown are nominal values and should be used as estimates only. Exact value calculations depend on a wide variety of conditions.

- D:Detection Distance
 R: Recognition Distance
 I : Identification Distance

Ordering Information						
Туре	Part Number	Description				
DH-TPC- PT8620A-T	DH-TPC-PT8620AP-TA25Z30 DH-TPC-PT8620AN-TA25Z30	Thermal: 640x512 25mm lens Visible: 2MP 30X Temperature measurement				
	DH-TPC-PT8620AP-TA60Z30 DH-TPC-PT8620AN-TA60Z30	Thermal: 640x512 60mm lens Visible: 2MP 30X Temperature measurement				
	DH-TPC-PT8620AP-TA100Z30 DH-TPC-PT8620AN-TA100Z30	Thermal: 640x512 100mm lens Visible: 2MP 30X Temperature measurement				

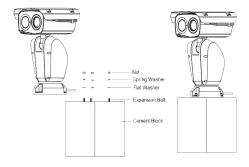
Accessories

Included:



Power Supply

Mounting Type



Dimensions (mm)

