

# DH-TPC-PT8620A-B

Thermal Network Hybrid Pan & Tilt Camera



- · 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 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













#### **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.

#### 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 +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.





<b>Technical Specification</b>				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 adaptation	
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 is r
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		ackhot/Ironrow/Id /Globow/Iconbov		Video	H.264 / MJPEG
Thermal Lens					Main Stream:
Lens Type	Fixed				Thermal: 1280x1024(default) / 720P @1~25/30f Visible: 1080P(default) / 720P @1~25/30fps
Focus Control	Athermalized, Fo	ocus-free		Frame Rate	Sub Stream:
Focal Length	35mm	60mm	100mm		Thermal: 640x512(default) / 320x256 @1~25/30 Visible: CIF(default) / D1 @1~25/30fps
Angle of View	H:17.2°, V:13.8°	H:10.3°, V:8.3°	H:6.2°, V:4.7°	Bit Rate Control	CBR / VBR
Effective Distance (1)	D②:1300m	D:2000m	D:3000m	Bit Rate	H.264: 640 ~8192Kbps
Man(1.8m*0.5m)	R③:320m I ④ :160m	R:510m I :260m	R:750m I :380m	Day/Night	Auto(ICR) / Color / B/W
Effective Distance	D:4000m	D:6000m	D:8800m	BLC Mode	BLC / HLC / WDR
Vehicle(2.3m*2.3m)	R:1000m I:500m		R:2300m I:1200m	White Balance	Auto / ATW / Indoor / Outdoor / Manual
Visible Camera				Noise Reduction	3D DNR
Image Sensor	1/1.9" Sony CMC	OS		Motion Detetion	Off / On (4 zone, Rectangle)
Effective Pixels	1944(H)x1092(V	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(Color), 0.0001Lux@F1.5(B/W)		Defog	Off / On	
S/N Ratio	More than 55dB	More than 55dB		Digital Zoom	4x(24 levels)
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				Audio	
Focal Length	6~180mm			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		Advanced Intelligent Functions	Fire detection & alarm	
Focus Control				Tracking Trigger Mode	NA
	Auto / Manual		Tracking Trigger Event	NA	
Close Focus Distance 100mm~ 1000mm (0.33ft~3.28ft)			)		
PTZ					
Pan/Tilt Range	Pan: 0° ~ 360° er	ndless;Tilt:-90° ~ 4	40°		

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

Manual Control Speed



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, iOS

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#### Interface

Video Interface	1.0Vp-p/75 $\Omega$ , PAL / NTSC (HDCVI Optional)
Audio Interface	Input/Output 1 Input / 1 Output
RS485	Support
Alarm	7/2 In/Out

#### Electrical

Power Supply	AC 24V/5A±15%
Power Consumption	30W, Max. 70W (Heater, LEDs on)

#### Environmental

Operating Conditions	-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)
Storage 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	35Kg (77.16lb)

- 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

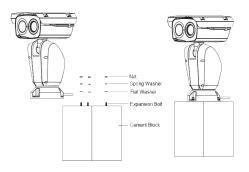
Ordering Information			
Туре	Part Number	Description	
	DH-TPC-PT8620AP-B35Z30 DH-TPC-PT8620AN-B35Z30	Thermal: 640x512 35mm lens Visible: 2MP 30X	
DH-TPC- PT8620A	DH-TPC-PT8620AP-B60Z30 DH-TPC-PT8620AN-B60Z30	Thermal: 640x512 60mm lens Visible: 2MP 30X	
	DH-TPC-PT8620AP-B100Z30 DH-TPC-PT8620AN-B100Z30	Thermal: 640x512 100mm lens Visible: 2MP 30X	

### **Accessories**

Included:



# **Mounting Type**



# Dimensions (mm)

