

DH-TPC-ACPT8620A-B

Thermal Network Anti-corrosion 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.

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 160°/s pan speed, 360° endless pan rotation
- · Up to 300 presets, 5 auto scan, 8 tour, 5 pattern
- \cdot 7/2 alarm in/out
- Micro SD memory, 256GB
- · Anti-corrosion/NEMA 4X, IP67



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.



Ultra Series | DH-TPC-ACPT8620A-B



Technical Specification

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Thermal Camera					
Image Sensor	Uncooled VOx Microbolometer				
Effective Pixels	640(H)x512(V)				
Pixel Size	17um				
Thermal Sensitivity(NETD)	<40mK@f/1.0				
Spectral Range	7~14um				
Image Setting	Brightness/Sharpness/RC	0I/AGC/FFC/3D DNR			
Color Palettes	14(Whitehot/Blackhot/Ir Fusion/Rainbow/Globow, Iconbow2 .etc)				
Thermal Lens					
Lens Type	Fixed				
Focus Control	Athermalized, Focus-free				
Focal Length	35mm	60mm			
Angle of View	H:17.2°, V:13.8°	H:10.3°, V:8.3°			
Effective Distance① Man(1.8m*0.5m)	D(2):1300m R(3):320m I (4) :160m	D:2000m R:510m I :260m			
Effective Distance Vehicle(2.3m*2.3m)	D:4000m R:1000m I :500m	D:6000m R: 1600m I : 800m			
Visible Camera					
Image Sensor	1/1.9" Sony CMOS				
Effective Pixels	1944(H)×1092(V)				
Electronic Shutter Speed	1/1~1/30,000s				
Min. Illumination	0.001Lux@F1.5(Color), 0.0001Lux@F1.5(B/W)				
S/N Ratio	More than 55dB				
IR Distance	150m (492ft)				
IR On/Off Control	Auto / Manual				
IR LEDs	9				
Visible Lens					
Focal Length	6 ~ 180mm				
Max Aperture	F1.5 ~ F4.3				
Angle of View	H: 59° ~ 2.4°				
Optical Zoom	30x				
Focus Control	Auto / Manual				
Close Focus Distance	100mm~ 1000mm (0.33ft~3.28ft)				
PTZ					
Pan/Tilt Range Pan: 0° ~ 360° endless;Tilt:-90° ~ 40°					
Manual Control Speed	Pan: 0.1° ~160° /s; Tilt: 0.1° ~60° /s				

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Tracking Trigger Mode NA	IVS	Tripwire, Intrusion, Object Abandoned/Missing			
	Advanced Intelligent Functions	Fire detection & alarm			
Tracking Trigger Event NA	Tracking Trigger Mode	NA			
	Tracking Trigger Event	NA			

Ultra Series | DH-TPC-ACPT8620A-B



Network	

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), NEMA 4X			
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	DC 36V			
Power Consumption	30W, Max. 70W (Heater, LEDs on)			
Environmental				
Operating Condition	-40°C $ \simeq +70^\circ C$ (-40°F $\simeq +158^\circ F) / Less than 95% RH * Start up should be done at above-40°C (-40°F)$			
Strorage Conditions	-40°C $^{\sim}$ +70°C (-40°F $^{\sim}$ +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)			
Note:	35Kg (77.16lb)			

(1) Effective distance values shown are nominal values and should be used as estimates (a) Electric value calculations depend on a wide variety of conditions.
(b) D:Detection Distance
(c) R: Recognition Distance
(d) I: Identification Distance

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Туре	Part Number	Description
DH-TPC- ACPT8620A	DH-TPC-ACPT8620AP-B35Z30 DH-TPC-ACPT8620AN-B35Z30	Thermal: 640x512 35mm lens Visible: 2MP 30X
	DH-TPC-ACPT8620AP-B60Z30 DH-TPC-ACPT8620AN-B60Z30	Thermal: 640x512 60mm lens Visible: 2MP 30X
	DH-TPC-ACPT8620AP-B100Z30 DH-TPC-ACPT8620AN-B100Z30	Thermal: 640x512 100mm lens Visible: 2MP 30X

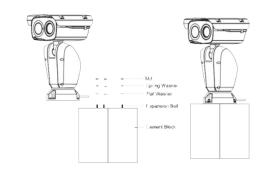
Accessories

Included:

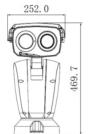


100 ~ 240V AC (Input) 36V DC (Output) Power Supply

Mounting Type



Dimensions (mm)





Ø200