

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
- · 7/2 alarm in/out
- · Micro SD memory, 256GB
- · Anti-corrosion/NEMA 4X, IP67













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.





March Season Uncoded Vox Microbolometer PTZ Mode Seato Stan, 8 Toar, 5 Pattern, Auto Pain Effective Pixels \$400°(6-\$12)(V) Speed Setup Haman oriented forall length / speed odaptatic Speed Setup Haman oriented forall length / speed odaptatic Speed Setup Haman oriented forall length / speed odaptatic Speed Setup Haman oriented forall length / speed odaptatic Speed Setup Haman oriented forall length / speed odaptatic Speed Setup Haman oriented forall length / speed odaptatic Speed Setup Haman oriented forall length / speed odaptatic Speed Setup Haman oriented forall length / speed Setup Video Checkbell / Speed Setup Video Checkbell / Speed Setup Video Checkbell / Speed Setup Haman oriented forall length / speed Setup Video Checkbell / Speed Setup Haman oriented forall length / speed Setup Video Checkbell / Speed Setup Haman oriented forall length / speed Setup Haman oriented forall length / speed Setup Video Checkbell / Speed Setup Haman oriented forall length / Speed Setup	Technical Specification		Preset Speed	Pan: 0.1° ~160° /s ;Tilt: 0.1° ~60° /s	
Special Step	Thermal Camera		Preset	300	
Property	Image Sensor	Uncooled VOx Microbo	lometer	PTZ Mode	5 Auto Scan, 8 Tour, 5 Pattern, Auto Pan
Thermal SensitivityNETD	Effective Pixels	640(H)x512(V)		Speed Setup	Human-oriented focal length / speed adaptation
	Pixel Size	17um		Power Up Action	in the second of
Spectral Range 77-94m	Thermal Sensitivity(NETD)	<40mK@f/1.0			
	Spectral Range	7~14um		Idle Motion	The state of the s
Compression H.284 / MilPSC	Image Setting	Brightness/Sharpness/	ROI/AGC/FFC/3D DNR	Protocol	DH-SD, Pelco-P/D (Auto recognition)
Thermal Lens Thermal Lens Thermal Stream: Thermal: 1280x024(default) / 720P @ 1*25/30fps Thermal: 1280x024(default) / 720P @ 1*25/30fps Violbic: 1680R[default) / 120P 0 1*25/30fps Violbic: 1680R[default) / 120P 0 1*25/30fps Violbic: 1680R[default) / 120P 0 1*25/30fps Violbic: 1680R[default] / 120P 0 1*25/30fps Violbic: 16	Color Palettes	Fusion/Rainbow/Globo			H.264 / MJPEG
Thermal: 1280x102012 (default) / 720 @ 1-25/3 (default) / 720 @ 1-25/	Thermal Lens			·	
Frame Rate Sub Stream: Thems.i. 640x517(clefault.) / 35mm 60mm	Lens Type	Fixed			Thermal: 1280x1024(default) / 720P @1~25/30
Same Some Some Some Some Some Visible: Cif (default) O1 €1*25/30fps Angle of View H:17.2*, V:13.8* H:10.3*, V:8.3* Bit Rate Control CBR / VBR	Focus Control	Athermalized, Focus-fre	ee	Frame Rate	
Bit Rate	Focal Length	35mm	60mm		Thermal: 640x512(default) / 320x256 @1~25/3 Visible: CIF(default) / D1 @1~25/30fps
## (3):320m R:510m L:260m L:260m	Angle of View	H:17.2°, V:13.8°	H:10.3°, V:8.3°	Bit Rate Control	CBR / VBR
Man(1.8m*0.5m) 10 1.600m 1.200m 1.200m	Fffective Distance(1)			Bit Rate	H.264: 640 ~8192Kbps
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Noise Reduction St. 1600m R. 1600m St. 1600m White Balance Auto / ATW / Indoor / Outdoor / Manual	Effective Distance			BLC Mode	BLC / HLC / WDR
Image Sensor 1/1.9" Sony CMOS Region of Interest Off / On (4 zone, Rectangle) Region of Interest Off / On (4 zone, Rectangle) Region of Interest Off / On (4 zone, Rectangle) Region of Interest Off / On (4 zone) NA Illumination 0.001Lux@F1.5(Color), 0.0001Lux@F1.5(B/W) Defog Off / On Pefog Off / On Ax(24 levels) Flip 180° IR Distance 150m (492ft) IR Distance 150m (492ft) IR Distance Privacy Masking Off / On Privacy Masking Off / On (4 area, Rectangle) Visible Lens Audio Compression G.711A / G.711Mu / AAC Intelligence NS Tripwire, Intrusion, Object Abandoned/Missing Optical Zoom 30x Advanced Intelligent Functions Fire detection & alarm Tracking Trigger Mode NA Tracking Trigger Event NA				White Balance	Auto / ATW / Indoor / Outdoor / Manual
Effective Pixels 1944(H)x1092(V) Region of Interest Off / On (4 zone) Electronic Shutter Speed 1/1 ~ 1/30,000s Electronic Image Stabilization (EIS) Min. Illumination 0.001Lux@F1.5(Color), 0.0001Lux@F1.5(8/W) Defog Off / On S/N Ratio More than 55dB Digital Zoom 4x(24 levels) Flip 180* Region of Interest Off / On Max (24 levels) Flip 180* Mirror Off / On REEDS 9 Privacy Masking Off / On (4 area, Rectangle) Visible Lens Focal Length 6~ 180mm Compression G.711A / G.711Mu / AAC Max Aperture F1.5 ~ F4.3 Intelligence Angle of View H: 59* ~ 2.4* Optical Zoom 30x Advanced Intelligent Functions Fire detection & alarm Tracking Trigger Mode NA Tracking Trigger Event NA	Visible Camera			Noise Reduction	3D DNR
Electronic Shutter Speed 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 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 Angle of View H:59°~2.4° Ivs Tripwire, Intrusion, Object Abandoned/Missing Optical Zoom 30x Advanced Intelligent Functions Fire detection & alarm Tracking Trigger Mode NA Tracking Trigger Event NA PTZ	Image Sensor	1/1.9" Sony CMOS		Motion Detetion	Off / On (4 zone, Rectangle)
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Digital Zoom 4X[24 levels] IR Distance 150m (492ft) Flip 180° Auto / Manual Mirror Off / On IR LEDs 9 Privacy Masking Off / On (4 area, Rectangle) Visible Lens Audio Compression G.711A / G.711Mu / AAC Max Aperture F1.5 ~ F4.3 Angle of View H: 59* ~ 2.4* IVS Tripwire, Intrusion, Object Abandoned/Missing Optical Zoom Advanced Intelligent Functions Fire detection & alarm Tracking Trigger Mode NA Tracking Trigger Event NA	Min. Illumination	0.001Lux@F1.5(Color),	0.0001Lux@F1.5(B/W)		Off / On
Mirror Off / On IR LEDS 9 Privacy Masking Off / On (4 area, Rectangle) Visible Lens Audio Compression G.711A / G.711Mu / AAC Max Aperture F1.5 ~ F4.3 Angle of View H: 59° ~ 2.4° Optical Zoom 30x Auto / Manual Focus Control Auto / Manual Close Focus Distance 100mm~ 1000mm (0.33ft~3.28ft) Auto / Manual Tracking Trigger Event NA	S/N Ratio	More than 55dB		Digital Zoom	4x(24 levels)
Privacy Masking Off / On (4 area, Rectangle) Audio Compression G.711A / G.711Mu / AAC Max Aperture F1.5 ~ F4.3 Intelligence Angle of View H: 59° ~ 2.4° Optical Zoom 30x Auto / Manual Focus Control Auto / Manual Close Focus Distance 100mm~ 1000mm (0.33ft~3.28ft) PTZ	IR Distance	150m (492ft)		Flip	180°
Visible Lens Audio Compression G.711A / G.711Mu / AAC Max Aperture F1.5 ~ F4.3 Intelligence IVS Tripwire, Intrusion, Object Abandoned/Missing Optical Zoom 30x Advanced Intelligent Functions Fire detection & alarm Tracking Trigger Mode NA Tracking Trigger Event NA Tracking Trigger Event NA	IR On/Off Control	Auto / Manual		Mirror	Off / On
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Intelligence IVS Tripwire, Intrusion, Object Abandoned/Missing Optical Zoom 30x Advanced Intelligent Functions Fire detection & alarm Tracking Trigger Mode NA Tracking Trigger Event NA Tracking Trigger Event NA	Focal Length	6 ~ 180mm		Compression	G.711A / G.711Mu / AAC
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Focus Control Auto / Manual Tracking Trigger Mode NA Tracking Trigger Event NA PTZ	Optical Zoom	30x		Advanced Intelligent Functions	Fire detection & alarm
Close Focus Distance 100mm~ 1000mm (0.33ft~3.28ft) PTZ	•			Tracking Trigger Mode	NA
PTZ			24+~2 204+)	Tracking Trigger Event	NA
		100mm. 1000mm (0.3	ગા '3.28ાા)		

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

Certifications

Certification	CE (EN 60950:2000), FCC (FCC Part 15 SubpartB), NEMA 4X
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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	DC 36V
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)

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(3) R: Recognition Distance
(4) I: Identification Distance

Ordering Information			
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	

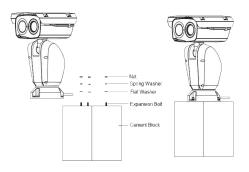
Accessories

Included:



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

Mounting Type



Dimensions (mm)

