

DH-TPC-ACPT8620B-B

Thermal Network Anti-corrosion Hybrid PTZ Camera



System Overview

Featuring a dual lens Pan/Tilt/Zoom (PTZ) 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 optical zoom lens(Thermal&Visible)
- · Support fire detection & alarm
- · Max 12°/s pan speed, 360° endless pan rotation
- · Up to 300 presets, 5 auto scan, 8 tour, 5 pattern
- · 2/2 alarm in/out
- · Micro SD memory, 256GB
- · Anti-corrosion/NEMA 4X, IP66













Environmental

With a temperature range of -35 °C to +65 °C (-31 °F to +149 °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(optional) provides users with clear visibility at all times.

Protection

The camera Supporting wide range voltage input (100 $^{\sim}$ 300V AC), 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



					TECHNOLOGY
Technical Specification			Preset Speed	Pan: 0.01° ~12° /s ;Tilt: 0.01° ~9° /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
Thermal Sensitivity(NETD)	<40mK@f/1.0				after power failure
Spectral Range	7~14um			Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period
Image Setting	Brightness/Sharpne	ess/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				Compression	
Lens Type	Motorized				Main Stream: Thermal: 1280x1024(default) / 720P @1~25/30fps
Focus Control	Auto / Manual			Frame Rate	Visible: 1080P(default) /720P @1~25/30fps Sub Stream:
Focal Length	20 ~ 100mm		30 ~ 150mm		Sub Stream: Thermal: 640x512(default) / 320x256 @1~25/30fps Visible: CIF(default) / D1 @1~25/30fps
Angle of View	H:31.6° ~ 6.2°, V:25	5.1°	H:21.0° ~ 4.1°, V:16.8°	Bit Rate Control	CBR / VBR
	~ 5°		~ 3.3°	Bit Rate	H.264: 640 ~8192Kbps
Effective Distance 1	D:3000m R:750m		D:4500m R:1150m	Day/Night	Auto(ICR) / Color / B/W
Man(1.8m*0.5m)		I :570m	BLC Mode	BLC / HLC / WDR	
Effective Distance Vehicle(2.3m*2.3m)	D:8800m R:2300m		D:13200m R:3500m	White Balance	Auto / ATW / Indoor / Outdoor / Manual
	I :1200m		I:1800m	Noise Reduction	3D DNR
Visible Camera		Motion Detetion	Off / On (4 zone, Rectangle)		
Image Sensor	1/1.9" Sony CMOS	1/1.9" Sony CMOS		Region of Interest	Off / On (4 zone)
Effective Pixels	1944(H)x1092(V)	1944(H)x1092(V)		Electronic Image Stabilization (EIS)	NA
Electronic Shutter Speed		1/1 ~ 1/30,000s		Defog	Off / On
Min. Illumination		0.002Lux@F1.5(Color), 0.0005Lux@F1.5(B/W)		Digital Zoom	4x(24 levels)
S/N Ratio		More than 55dB		Flip	180°
IR Distance	NA	NA		Mirror	Off / On
IR On/Off Control	NA	NA		Privacy Masking	Off / On (4 area, Rectangle)
IR LEDs	NA			Audio	
Visible Lens				Compression	G.711A / G.711Mu / AAC
Focal Length	15.6 ~ 500mm 1	12.5 ~ 775	imm	1 1 11:	
Max Aperture	F3.9 F	F3.8		Intelligence	Trinuiro Intrucion Obiest Aber decedo Africa
Angle of View	H:27.5° ~ 0.9°	H:28.8° ^	0.5°	IVS Advanced Intelligent Functions	Tripwire, Intrusion, Object Abandoned/Missing Fire detection & alarm
Optical Zoom	32X 6	62X		Tracking Trigger Mode	NA
Focus Control	Auto / Manual	Auto / Manual		Tracking Trigger Event	NA
Close Focus Distance 100mm ~ 1000mm (0.33ft ~ 3.28ft)		HOCKING HIBBEL LYCHL	101		
PTZ					
Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -60° ~ 45° (-60° ~ 60° optional)				
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Pan: 0.01° ~12° /s; Tilt: 0.01° ~9° /s



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

E (EN 60950:2000), FCC (FCC Part 15 SubpartB), IEMA 4X

Interface

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

Electrical

Power Supply	100 ~ 300V AC
Power Consumption	100W, Max. 130W (Heater on)

Environmental

Operating Conditions	-35°C ~ +65°C (-31°F ~ +149°F) / (-40°C ~ +70°C optional) / Less than 95% RH * Start up should be done at above-40°C (-40°F)		
Storage Conditions	-40°C \sim +70°C (-40°F \sim +158°F) / Less than 95% RH		
Ingress Protection	IP66		

Construction

Casing	Metal
Dimensions	640mm x 400mm x 612mm (25.2"x 15.7" x 24.1")
Net Weight	50Kg (110.2 lb)
N& Weight	68Kg (149.9 lb)

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

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Туре	DH-TPC-ACPT8620B y-ab (y = P or N; a = B30150, B20100; b = ZC710B, ZF511B)
Video standard (y)	y = P: PAL y = N: NTSC
Thermal Lens (a)	a = B30150: 30 ~ 150mm a = B20100: 20 ~ 100mm
Visible Lens (b)	b = ZC710B: 12.5 ~ 775mm, 62X b = ZF511B: 15.6 ~ 500mm, 32X

DH-TPC-ACPT8620BP-B30150ZC710B

PAL, Thermal lens: 30 $^{\sim}$ 150mm, Visible lens: 12.5 $^{\sim}$ 775mm

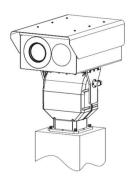
Accessories

Included:



100 ~ 300V AC (Input) 30V DC (Output) **Power Supply**

Mounting Type



Dimensions (mm)

