

DH-TPC-ACPT8620C-B

Thermal Network Anti-corrosion Tribrid PTZ Camera



System Overview

Featuring a triple 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. The selection of a laser range finder or laser illuminator completes the trio- A laser range finder is able to measure the distance between the camera and target, while a laser illuminator is used for illuminating objects to enhance visible-light camera functionality in low-light environments.

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)
- $\cdot\,$ Laser range finder or laser illuminator optional
- · Support fire detection & alarm
- Max 12°/s pan speed, 360° endless pan rotation
- · Up to 300 presets, 5 auto scan, 8 tour, 5 pattern
- \cdot 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.



Anti-corrosion Series | DH-TPC-ACPT8620C-B

Technical Specification

Thermal Camera

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/ROI/AGC/FFC/3D DNR	
Color Palettes	14(Whitehot/Blackhot/Ironrow/Icefire/ Fusion/Rainbow/Globow/Iconbow1/ Iconbow2 .etc)	
Thermal Lens		
Lens Type	Motorized	
Focus Control	Auto / Manual	
Focal Length	20 ~ 100mm	30 ~ 150mm
Angle of View	H:31.6° ~ 6.2°, V:25.1° ~ 5°	H:21.0° ~ 4.1°, V:16.8° ~ 3.3°
Effective Distance① Man(1.8m*0.5m)	D:3000m R:750m I :380m	D:4500m R:1150m I :570m
Effective Distance Vehicle(2.3m*2.3m)	D:8800m R:2300m I :1200m	D:13200m R:3500m I :1800m
Visible Camera		
Image Sensor	1/1.9" Sony CMOS	
Effective Pixels	1944(H)x1092(V)	
Electronic Shutter Speed	1/1~1/30,000s	
Min. Illumination	0.002Lux@F1.5(Color), 0.0005Lux@F1.5(B/W)	
S/N Ratio	More than 55dB	
IR Distance	NA	
IR On/Off Control	NA	
IR LEDs	NA	
Visible Lens		
Focal Length	15.6 ~ 500mm	12.5 ~ 775mm
Max Aperture	F3.9	F3.8
Angle of View	H:27.5°~0.9°	H:28.8° ~ 0.5°
Optical Zoom	32X	62X
Focus Control	Auto / Manual	
Close Focus Distance	100mm ~ 1000mm (0.33ft ~ 3.28ft)	
Laser Range Finder(Optional)		
Wavelength	1.57um (Eye safe)	
Effective Distance	50 ~ 5000m (164ft ~ 16404ft)	

Accuracy	±2m (±6.56ft)	
Laser Illuminator(Option		
Wavelength	808±5nm	
Effective Distance	1000m (3281ft)	
Angle of Laser Beam	1° ~ 30°	
Zoom Speed	< 4s (Wide ~ Tele)	
PTZ		
Pan/Tilt Range	Pan: 0° ~ 360° endless;Tilt:-60° ~ 45°(-60° ~ 60° optional)	
Manual Control Speed	Pan: 0.01° ~12° /s; Tilt: 0.01° ~8° /s	
Preset Speed	Pan: 0.01° ~12° /s ;Tilt: 0.01° ~8° /s	
Preset	300	
PTZ Mode	5 Auto Scan, 8 Tour, 5 Pattern, Auto Pan	
Speed Setup	Human-oriented focal length/ speed adaptation	
Power Up Action	Auto restore to previous PTZ and lens status after power failure	
Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period	
Protocol	DH-SD, Pelco-P/D (Auto recognition)	
Video		
Compression	H.264 / MJPEG	
Frame Rate	Main Stream: Thermal: 1280x1024(default) / 720P @1~25/30fps Visible: 1080P(default) /720P @1~25/30fps Sub Stream:	
	Thermal: 640x512(default) / 320x256 @1~25/30fps Visible: CIF(default) / D1 @1~25/30fps	
Bit Rate Control	CBR / VBR	
Bit Rate	H.264: 640 ~8192Kbps	
Day/Night	Auto(ICR) / Color / B/W	
BLC Mode	BLC / HLC / WDR	
White Balance	Auto / ATW / Indoor / Outdoor / Manual	
Noise Reduction	3D DNR	
Motion Detetion	Off / On (4 zone, Rectangle)	
Region of Interest	Off / On (4 zone)	
Electronic Image Stabilization (EIS)	NA	
Defog	Off / On	
Digital Zoom	4x(24 levels)	
Flip	180°	
Mirror	Off / On	
Privacy Masking	Off / On (4 area, Rectangle)	
Audio		
Compression	G.711A / G.711Mu / AAC	





Intelligence

Intelligence		
IVS	Tripwire, Intrusion, Object Abandoned/Missing	
Advanced Intelligent Functions	Fire detection & alarm	
Tracking Trigger Mode	NA	
Tracking Trigger Event	NA	
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	
Interface		
Video Interface	1.0Vp-p/75Ω, PAL / NTSC (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	Max. 100W (Laser range finder on) Max. 150W (Laser Illuminator 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	655mm x 515mm x 617mm (25.8"x 20.3" x 24.3")	
Net Weight	75Kg (165.35lb)	
Gross Weight	90Kg (198.42lb)	

Note:

(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. 2) D:Detection Distance
3) R: Recognition Distance
4) I: Identification Distance

Ordering Information

Туре	DH-TPC-ACPT8620C y-abc (y = P or N; a = B30150, B20100; b = ZC710B, ZF511B; c = R or L)	
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	
Laser module (c)	c = R: Laser range finder c = L: Laser illuminator	
Note: DH-TPC-ACPT8620CP-B30150ZC710BR		

PAL, Thermal lens: 30 ~ 150mm, Visible lens: 12.5 ~ 775mm, Laser range finder

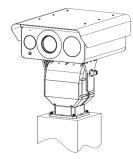
Accessories

Included:

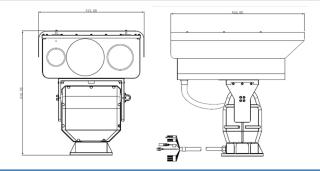


100 ~ 300V AC (Input) 30V DC (Output) Power Supply

Mounting Type



Dimensions (mm)



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