

# 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)
- · 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
- · 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  $(100 \sim 300 \text{V AC})$ , 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.





<b>Technical Specification</b>			Acc	curacy	±2m (±6.56ft)
Thermal Camera		La	Laser Illuminator (Optional)		
Image Sensor	Uncooled VOx Microbolometer		Wa	velength	808±5nm
Effective Pixels	640(H)x512(V)		Effe	ective Distance	1000m (3281ft)
Pixel Size	17um		Ang	gle of Laser Beam	1° ~ 30°
Thermal Sensitivity(NETD)	<40mK@f/1.0		Zoo	om Speed	< 4s (Wide ~ Tele)
Spectral Range	7~14um		PT	PTZ	
Image Setting	Brightness/Sharpness/RC	DI/AGC/FFC/3D DNR	Par	n/Tilt Range	Pan: 0° ~ 360° endless;Tilt:-60° ~ 45°(-60° ~ 60° optional)
Color Palettes	14(Whitehot/Blackhot/Ir Fusion/Rainbow/Globow,		Ma	nual Control Speed	Pan: 0.01° ~12° /s; Tilt: 0.01° ~8° /s
	Iconbow2 .etc)		Pre	set Speed	Pan: 0.01° ~12° /s ;Tilt: 0.01° ~8° /s
Thermal Lens			Pre	set	300
Lens Type	Motorized		PTZ	Z Mode	5 Auto Scan, 8 Tour, 5 Pattern, Auto Pan
Focus Control	Auto / Manual		Spe	eed Setup	Human-oriented focal length/ speed adaptation
Focal Length	20 ~ 100mm	30 ~ 150mm	Pov	wer Up Action	Auto restore to previous PTZ and lens status after power failure
Angle of View	H:31.6° ~ 6.2°, V:25.1° ~ 5°	H:21.0° ~ 4.1°, V:16.8° ~ 3.3°	Idle	e Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period
Effective Distance 1	D:3000m	D:4500m	Pro	tocol	DH-SD, Pelco-P/D (Auto recognition)
Man(1.8m*0.5m)	R:750m I:380m	R:1150m I :570m	Vio	deo	
Effective Distance Vehicle(2.3m*2.3m)	D:8800m R:2300m	D:13200m R:3500m	Coi	mpression	H.264 / MJPEG
Visible Camera				Main Stream: Thermal: 1280x1024(default) / 720P @1~25/30fps Visible: 1080P(default) /720P @1~25/30fps	
Image Sensor	1/1.9" Sony CMOS		Fra	Frame Rate	Sub Stream:
Effective Pixels	1944(H)x1092(V)				Thermal: 640x512(default) / 320x256 @1~25/30fps Visible: CIF(default) / D1 @1~25/30fps
Electronic Shutter Speed	1/1 ~ 1/30,000s		Bit	Rate Control	CBR / VBR
Min. Illumination	0.002Lux@F1.5(Color), 0.0005Lux@F1.5(B/W)		Bit	Rate	H.264: 640 ~8192Kbps
S/N Ratio	More than 55dB		Day	//Night	Auto(ICR) / Color / B/W
IR Distance	NA		BLC	CMode	BLC / HLC / WDR
IR On/Off Control	NA		Wh	iite Balance	Auto / ATW / Indoor / Outdoor / Manual
IR LEDs	NA		Noi	ise Reduction	3D DNR
Visible Lens			Mo	tion Detetion	Off / On (4 zone, Rectangle)
Focal Length	15.6 ~ 500mm	12.5 ~ 775mm	Reg	gion of Interest	Off / On (4 zone)
Max Aperture	F3.9	F3.8	Ele	ctronic Image Stabilization	NA
Angle of View	H:27.5° ~ 0.9°	H:28.8° ~ 0.5°	Def	fog	Off / On
Optical Zoom	32X	62X	Dig	ital Zoom	24x
Focus Control	Auto / Manual		Flip	)	180°
Close Focus Distance	100mm ~ 1000mm (0.33ft ~ 3.28ft)		Mir	ror	Off / On
Laser Range Finder(Optional)		Priv	vacy Masking	Off / On (4 area, Rectangle)	
Wavelength	1.57um (Eye safe)		Αι	ıdio	
Effective Distance	50 ~ 5000m (164ft ~ 16404ft)		Cor	mpression	G.711A / G.711Mu / AAC



## 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, los

#### Certifications

Certification	CE (EN 60950:2000), FCC (FCC Part 15 SubpartB ), NEMA 4X
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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	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 Condition	-35°C $\sim$ +65°C (-31°F $\sim$ +149°F) / (-40°C $\sim$ +70°C optional) / Less than 95% RH * Start up should be done at above-40°C (-40°F)
Strorage Conditions	-40°C ~ +70°C (-40°F ~ +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:

①Effective 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 <b>y-abc</b> ( <b>y</b> = P or N; <b>a</b> = B30150, B20100; <b>b</b> = ZC710B, ZF511B; <b>c</b> = R or
	L)
Video standard ( <b>y</b> )	<b>y</b> = P: PAL <b>y</b> = N: NTSC
Thermal Lens ( <b>a</b> )	<b>a</b> = B30150: 30 ~ 150mm <b>a</b> = B20100: 20 ~ 100mm
Visible Lens ( <b>b</b> )	<b>b</b> = ZC710B: 12.5 ~ 775mm, 62X <b>b</b> = ZF511B: 15.6 ~ 500mm, 32X
Laser module ( <b>c</b> )	<ul><li>c = R: Laser range finder</li><li>c = L: Laser illuminator</li></ul>

#### Note:

DH-TPC-ACPT8620CP-B30150ZC710BR

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

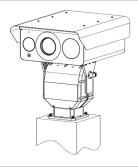
## **Accessories**

Included:



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

# **Mounting Type**



## Dimensions (mm)

