

DH-TPC-PT8620B-B

Thermal Network 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
- \cdot 2/2 alarm in/out
- Micro SD memory, 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.



Ultra Series | DH-TPC-PT8620B-B



Technical Specification

Thermal	Camera

mermai 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

Pan/Tilt Range

Manual Control Speed

Lens Type	Motorized				
Focus Control	Auto / Manual				
Focal Length	100mm	20~100	20 ~ 100mm 30 ~ 1		150mm
Angle of View	H:6.2°, V:5°	H:31.6° V:25.1°			.0° ~ 4.1°, 8° ~ 3.3°
Effective Distance① Man(1.8m*0.5m)	D(2):3000m R(3):750m I (4) :380m	D:3000n R:750m I :380m	F):450 R:115 :570	
Effective Distance Vehicle(2.3m*2.3m)	D:8800m R:2300m I :1200m	R:2300m	D:8800m D:13200m R:2300m R:3500m I :1200m I :1800m		00m
Visible Camera					
Image Sensor	1/1.9" Sony	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	6 ~ 180mm	7.9 ~ 316mm	21 ~ 500r	nm	12.5 ~ 775mm
Max Aperture	F1.5	F1.6	F3.8		F3.8
Angle of View	H:59° ~ 2.4°	H:40.3° ~1.4°	H:23.5° ~1.0°		H:28.8° ~0.5°
Optical Zoom	30X	40X	24X		62X
Focus Control	Auto / Manu	ıal			
Close Focus Distance	100mm ~ 10	000mm (0.33f	t ~ 3.28ft)		
PTZ					

Pan: 0° ~ 360° endless; Tilt:-60° ~ 45°(-60° ~ 60°

Pan: 0.01° ~12° /s; Tilt: 0.01° ~9° /s

optional)

Preset Speed	Pan: 0.01° ~12° /s ;Tilt: 0.01° ~9° /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	24x
Flip	180°
Mirror	Off / On
Privacy Masking	Off / On (4 area, Rectangle)
Audio	
Compression	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

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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)
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	100W, Max. 130W (Heater on)
Environmental	
Operating Condition	-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)
Strorage 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)
Gross Weight	68Kg (149.9 lb)

Note:

1 Effective distance values shown are nominal values and should be used as estimates (a) Lifective distance values shown are nonmarivatues and should be a only. Exact value calculations depend on a wide variety of conditions.
 (a) D:Detection Distance
 (b) I: Identification Distance

Ordering Information		
Туре	DH-TPC-PT8620B y-ab (y = P or N; a = B30150, B20100 or BM100; b = ZC710B, ZC510B, ZD310A or ZD110B)	
Video standard (y)	y = P: PAL y = N: NTSC	
Thermal Lens (a)	a = B30150: 30 ~ 150mm a = B20100: 20 ~ 100mm a = BM100: 100mm	
Visible Lens (b)	 b = ZC710B: 12.5 ~ 775mm, 62X b = ZC510B: 21 ~ 500mm, 24X b = ZD310A: 7.9 ~ 316mm, 40X b = ZD110B: 6 ~ 180mm, 30X 	
Note:		

C-PT8620BP PAL, Thermal lens: 30 ~ 150mm, Visible lens: 12.5 ~ 775mm

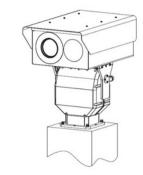
Accessories

Included:



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

Mounting Type



Dimensions (mm)

