

DH-TPC-PT8421B

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.

- · 400x300 VOx uncooled thermal sensor technology
- · Athermalized lens(thermal), focus-free
- · 1/1.9" 2 Megapixel progressive scan CMOS
- · Powerful optical zoom lens(thermal&visible)
- $\cdot\,$ Support fire detection & alarm
- $\cdot\,$ Max 30°/s pan speed, 360° endless pan rotation
- · Up to 300 presets, 5 auto scan, 8 tour, 5 pattern
- · 2/1 alarm in/out
- · Micro SD memory, IP66



Environmental

With a temperature range of -40 °C to +70 °C, 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(100–300V 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.



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Technical Specification				
General				
Structure	Multi-sensor PTZ camera			
Thermal				
Detector Type	Vanadium oxide uncooled focal plane detector			
Effective Pixels	400x300			
Pixel Pitch	17µm			
Spectral Range	8µm–14µm			
Thermal Sensitivity (NETD)	≤40mK			
Focal Length	100mm; 20mm–100mm; 30mm–150mm; 38mm– 190mm			
Field of View	100mm: horizontal: 3.9°; vertical: 2.9° 20mm–100mm: horizontal: 19.3°–3.9°; vertical: 14.5°–2.9° 30mm–150mm: horizontal: 12.9°–2.6°; vertical: 9.7°–1.9° 38mm–190mm: horizontal: 10.2°–2.1°; vertical: 7.7°–1.5°			
Focus Mode	Auto; manual			
Aperture	100mm: F1.0 20mm–100mm: F1.0 30mm–150mm: F1.2 38mm–190mm: F1.2			
Detection Distance	100mm: vehicle: 7843m (2574ft); human: 2941m (9649ft) 20mm–100mm: vehicle: 7843m (2574ft); human: 2941m (9649ft) 30mm–150mm: vehicle: 11765m (38599ft); human: 4412m (14475ft) 38mm–190mm: vehicle: 14902m (2552ft); human: 5588m (18333ft)			
Recognition Distance	100mm: vehicle: 1961m (6434ft); human: 756m (2480ft) 20mm–100mm: vehicle: 1961m (6434ft); human: 756m (2480ft) 30mm–150mm: vehicle: 2941m (9649ft); human: 1134m (14475ft) 38mm–190mm: vehicle: 3725m (12221ft); human: 1437m (4715ft)			
Identification Distance	100mm: vehicle: 980m (3215ft); human: 378m (1240ft) 20mm–100mm: vehicle: 980m (3215ft); human: 378m (1240ft) 30mm–150mm: vehicle: 1471m (4826ft); human: 567m (1860ft) 38mm–190mm: vehicle: 1863m (6112ft); human: 718m (2356ft)			
Digital Detail Enhancement (DDE)	Yes			
AGC	Auto; manual			
Noise Reduction	2D NR; 3D NR			
Color Palettes	18 color modes selectable such as Whitehot/Blackhot/ Ironrow/Icefire.			
Visible				
Image Sensor	1/1.9 inch CMOS			
Effective Pixels	1920x1080			
Max. Resolution	2MP			

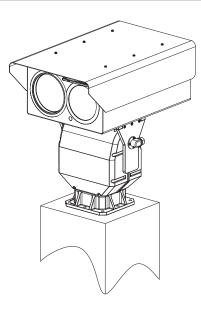
Horizontal Definition	≥1100TVL		
Min. Illumination	6.25mm–300mm: color: 0.001Lux@F1.4; black & white: 0.0001Lux@F1.4 21mm–500mm; 12.5mm–775mm; 16.7mm–1000mm: color: 0.002Lux @ (F1.5, AGC ON); black & white: 0.0005Lux @(F1.5, AGC ON)		
AGC	Auto; manual		
Noise Reduction	2D NR; 3D NR		
S/N Ratio	>55dB		
White Balance	Auto/manual/indoor/outdoor/tracking/outdoor auto/ sodium lamp auto/sodium lamp		
Electronic Defog	Yes		
Electronic Image Stabilization (EIS)	Yes		
Optical Defog	6.25mm–300mm: None 21mm–500mm: None 12.5mm–775mm: None 16.7mm–1000mm: Yes		
Electronic Shutter Speed	1/1s-1/100000s (auto or manual)		
BLC	Yes		
WDR	Yes		
HLC	Yes		
Digital Zoom	6.25mm–300mm: 16× 21mm–500mm: None 12.5mm–775mm: None 16.7mm–1000mm: None		
Day/Night	Auto (ICR); color/B/W		
Focus Mode	Auto; semi-auto; manual		
Focal Length	6.25mm–300mm (thermal lens: 100mm); 21mm-500mm (thermal lens: 20mm–100mm); 12.5mm-775mm (thermal lens: 30mm–150mm); 16.7mm-1000mm (thermal lens: 38mm–190mm)		
Field of View	6.25mm–300mm: horizontal: 61.93°–1.61° 21mm-500mm: horizontal: 23.5°–1.0°; vertical: 17.6°–0.8° 12.5mm-775mm: horizontal: 31.29°–0.32°; vertical: 19.36°–0.20° 16.7mm-1000mm: horizontal: 20.51°–0.22°; vertical: 15.54°–0.17°		
Close Focus Distance	6.25mm–300mm: 0.01m–1.5m 21mm-500mm: 1m–10m 12.5mm-775mm: 1m–10m 16.7mm-1000mm: 1m–10m		
Optical Zoom	6.25mm–300mm: 48× 21mm-500mm: 24× 12.5mm-775mm: 62x 16.7mm-1000mm: 60×		
Aperture	6.25mm–300mm: F1.4–F4.5 21mm-500mm: F3.9 12.5mm-775mm: F3.5 16.7mm-1000mm: F3.5		
Audio and Video			
Video Compression	H.265; H.264M; H.264H; H.264B; MJEPG		
Resolution	Thermal: Main stream (1280×1024, 1280×960, 1280×720, 400×300) (1280×960 by default); sub stream (640×512, 640×480, 400×300) (400×300 by default) Visible: Main stream (1920×1080, 1280×720, 704×576) (1920×1080 by default); sub stream (704×576, 352×288) (704×576 by default)		

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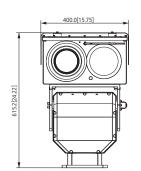
Number of 1999 Provide Status of S		Thermal: 50Hz:	Professional and Intelligent				
Number of the standard standar	Video Frame Rate	Main stream (1280×1024@25fps/1280×960@25fp	Fire Detection		Yes		
Number of the standard statement of the statement		(640×512@25fps/640×480@25fps/400x300@25fps) 60Hz:	LOID/HOT SPOT IFACE				
Interm Inter		s/1280×720@30fps/400x300@30fps), sub stream (640×512@30fps/640×480@30fps/400x300@30fps)	Auto Tracking				
Big Big Image Big Big Image Image Image Big Image		50Hz:	Port				
Main from 1000 (2000) Marm Input Lamb (20@25fps/704×576@25fps), sub stream (704×576@25fps/352×288@25fps) 60Hz: Main stream (1920×1080@30fps/1280×7 20@30fps/704×480@30fps), sub stream	Network		1 10M/100M Ethernet port (RJ-45)		
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P12Power SupplyPower SupplyDo-300V A and power adapter providedManual Control SpeedParc 0.01-307/s, Titl: 0.01-127/sPower Supply $100-300V A$ and power adapter providedPreset SpeedParc 0.01-307/s, Titl: 0.01-127/sPower Consumption $1000V$ (normal power consumption) consumptionPreset SpeedSato Scan, B Jour, S Pattern, Auto PanPower Consumption $1000V$ (normal power consumption) consumptionSpeed SetupHuman oriented foral length/ speed adaptationPower Up Action 400 control Speed 400 control C (40° E to 158°)ProtocolAutorestore to previous PTZ and lene status after power faiter 90 preving Preventure 400 control (40° E to 158°)ProtocolAutorestore to previous PTZ and lene status after power Subark Preset, Scan/ Tour/ Pattern if there is no command in the speeffed period 90 precenting $100 \dots 1000$ 90 presets $1000 \dots 1000$ ProtocolB-68, Peto-PD (Auto recognition)Protection Grad 90 presets $100 \dots 1000 \dots 1000$ 90 presets $100 \dots 1000 \dots 1000 \dots 1000 \dots 10000 \dots 100000 \dots 1000000 \dots 1000000 \dots 10000000 \dots 10000000 \dots 100000000$	Image Encoding Format	JPEG	Audio Output 1 cha		1 channe	nannel	
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Security Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access Fype Part Number Description User Management Support 20 users at most and users are classified as two groupsadministrator group and user group. Fype Part Number Thermal: 400x300 100mm lens Visible: 2MP 6.25-300mm lens Malfunction Detection Network disconnection; IP addresses conflict; SD card error (status or storage space); DH-TPC-PT8421BP/N- B0100ZC510B Thermal: 400x300 20-100mm lens Visible: 2MP 21-500mm lens Smart Event DH-TPC-PT8421BP/N- B0150ZC710B Thermal: 400x300 30-150mm lens Visible: 2MP 12.5-775mm lens Consert IWE Analyting Tripuing (intrusion Tripuing (intrusion DH-TPC-PT8421BP/N- B0150ZC710B Thermal: 400x300 30-150mm lens	Browser	Firefox: 42 and the earlier		Certifications		CE (EN 60950:2000); FCC (FCC Part 15 SubpartB)	
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	General IVS Analytics	Tripwire/intrusion					

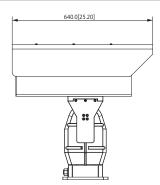
Ultra Series | DH-TPC-PT8421B

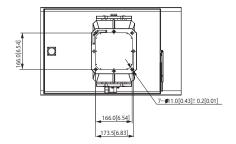
Installation Diagram



Dimensions (mm[inch])









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