

DH-TPC-PT8620M-TB

Thermal Network Mobile Hybrid Pan & Tilt Camera



System Overview

Featuring a dual lens Pan and Tilt 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.

Temperature Measurement

Dahua thermal cameras (-T models) provide remote temperature monitoring functionality with the ability to set temperature threshold alarms. Object temperatures can be monitored in daytime or at night, making them ideal for usage in power plant or oil extraction applications where overheating can be dangerous. When the temperature exceeds the set threshold, an alarm is triggered. The temperature range is between-40 °C to 550 °C (-40 °F to 1022 °F).

- 640x512 VOx uncooled thermal sensor technology
- · Athermalized Lens(thermal), Focus-free
- 1/1.9" 2Megapixel progressive scan Sony CMOS
- · Powerful 30x optical zoom
- Support temperature measurement
- · Support fire detection & alarm
- Max 90°/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



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.

Environmental

With a temperature range of-40 °C to +60 °C (-40 °F to +140 °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 provides users with clear visibility at all times.

Protection

The camera Supporting wide range voltage input(9 \sim 36V DC), 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.





Technical Specification

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Thermal Camera				
Image Sensor	Uncooled VOx Microbolo	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	Fixed			
Focus Control	Athermalized, Focus-free			
Focal Length	19mm	25mm		
Angle of View	H:31.6°, V:25.6°	H:24.6°, V:19.8°		
Effective Distance① Man(1.8m*0.5m)	D②:640m R③: 160m I ④: 80m	D:1000m R:250m I : 125m		
Effective Distance Vehicle(2.3m*2.3m)	D:2000m R:500m I : 250m	D:3000m R: 720m I : 360m		
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	0.001Lux@F1.5(Color), 0.0001Lux@F1.5(B/W)			
S/N Ratio	More than 55dB			
IR Distance	150m (492ft)	150m (492ft)		
IR On/Off Control	Auto / Manual	Auto / Manual		
IR LEDs	4	4		
Visible Lens				
Focal Length	6 ~ 180mm	6 ~ 180mm		
Max Aperture	F1.5 ~ F4.3	F1.5 ~ F4.3		
Angle of View	H: 59° ~ 2.4°			
Optical Zoom	30x			
Focus Control	Auto / Manual			
Close Focus Distance	100mm~ 1000mm (0.33ft~3.28ft)			
PTZ				
Pan/Tilt Range	Pan: 0° ~ 360° endless;Tilt:-90° ~ 90°			

Manual Control Speed	Pan: 0.1° ~60° /s; Tilt: 0.1° ~45° /s			
Preset Speed	Pan: 0.1° ~90° /s ;Tilt: 0.1° ~60° /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)			
Temperature Measurement				
Measurement Range	Low Temperature: -20°C ~+150°C High Temperature: 0°C ~+550°C			
Measurement Accuracy	Max (±2°C, ±2%)/Operating Temperature(-10°C~50°C)			
Measurement Mode	Spot / Line / Area			
Measurement Preset	Spot: 12 Line: 12 Area: 12 Support 12 rules per preset simultaneously			
Audio	Audio			
Compression	G.711A / G.711Mu / AAC			

Ultra Series | DH-TPC-PT8620M-TB



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)	
Interface		
Video Interface	1.0Vp-p/75Ω, PAL / NTSC (HDCVI Optional)	
Audio Interface	1/1 In/Out	
RS485	Support	
Alarm	2/2 In/Out	
Electrical		
Power Supply	9 ~ 36V DC	
Power Consumption	32W, Max. 50W (Heater, LEDs on)	
Environmental		
Operating Conditions	-40°C \sim +60°C (-40°F \sim +140°F) / 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 Construction	IP66	
Casing	Metal	
Dimensions	341 mm × 262mm× 275mm (13.42" x 10.31" x 10.82") (With bracket)	
Net Weight	7.5Kg (16.53 lb)	
Gross Weight	11Kg (24.25 lb)	

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	Part Number	Description		
DH-TPC- PT8620M-TB	DH-TPC-PT8620MP-TB19Z30 DH-TPC-PT8620MN-TB19Z30	Thermal: 640x512 19mm lens Visible: 2MP 30X Temperature measurement		
	DH-TPC-PT8620MP-TB25Z30 DH-TPC-PT8620MN-TB25Z30	Thermal: 640x512 25mm lens Visible: 2MP 30X Temperature measurement		

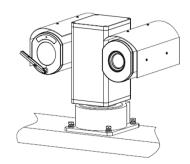
Accessories

Included:

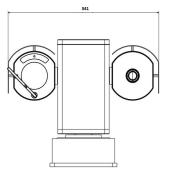


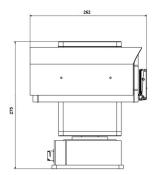
DC12V/5A Power Supply

Mounting Type



Dimensions (mm)





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