

# DH-TPC-PT8620M-B

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.

#### 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 30x optical zoom
- · Support fire detection & alarm
- $\cdot$  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



#### Auto-tracking

The camera supports auto-tracking. The tracking action can be triggered manually or automatically by defined rules. Once rules are triggered, the camera can zoom in and track the defined target automatically.

#### 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.



# Ultra Series | DH-TPC-PT8620M-B



Pan: 0.1° ~60° /s; Tilt: 0.1° ~45° /s

Visible Lens

Focal Length

Max Aperture

Angle of View

Optical Zoom

Focus Control

PTZ Pan/Tilt Range

Close Focus Distance

<b>Technical Specification</b>			
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	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)		
IR On/Off Control	Auto / Manual		
IR LEDs	4		

6 ~ 180mm

F1.5 ~ F4.3

H: 59° ~ 2.4°

Auto / Manual

100mm~ 1000mm (0.33ft~3.28ft)

30x

Manual control speed	141.0.1 00 75, 111.0.1 45 75	
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(19 levels)	
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	

Manual Control Speed

Pan: 0° ~ 360° endless;Tilt:-90° ~ 90°

## Ultra Series | DH-TPC-PT8620M-B



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	$1.0$ Vp-p/75 $\Omega$ , 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 Condition	-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)	
Strorage Conditions	-40°C ~+70°C (-40°F ~ +158°F) / Less than 95% RH	
Ingress Protection	IP66	
Construction		
Casing	Metal	
Dimensions	341 mm × 262mm× 275mm (13.42" x 10.31" x 10.82") (With bracket)	
Net Weight	7.5Кg (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

0.	lacitation	Distance

#### **Ordering Information** Туре Part Number Description DH-TPC-PT8620MP-B19Z30 Thermal: 640x512 19mm lens DH-TPC-PT8620MN-B19Z30 Visible: 2MP 30X DH-TPC-

DH-TPC-PT8620MP-B25Z30 DH-TPC-PT8620MN-B25Z30

#### Thermal: 640x512 25mm lens Visible: 2MP 30X

Accessories

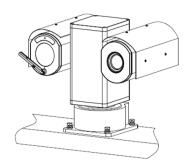
PT8620M-B

Included:



DC12V/5A Power Supply

### **Mounting Type**



#### **Dimensions (mm)**

