

# 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 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
- · 2/2 alarm in/out
- · Micro SD memory, IP66













#### 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.





echnical Specification				
Thermal Camera				
nage Sensor	Uncooled VOx Microbolometer			
Effective Pixels	640(H)x512(V)			
Pixel Size	17um			
Thermal Sensitivity(NETD)	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	uthermalized, Focus-free		
Focal Length	19mm	25mm		
Angle of View	H:31.6°, V:25.6°	H:24.6°, V:19.8°		
Effective Distance (1)	D(2):640m	D:1000m		
Man(1.8m*0.5m)	R③: 160m I ④: 80m	R:250m I: 125m		
Effective Distance	D:2000m	D:3000m		
Vehicle(2.3m*2.3m)	R:500m I: 250m	R: 720m I : 360m		
Visible Camera	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			
Visible Lens				
Focal Length	6~180mm			
Max Aperture	F1.5 ~ F4.3			
Anala af Viene				
Angle of View	H: 59° ~ 2.4°			
Optical Zoom	30x			
Focus Control	Auto / Manual			
Close Focus Distance	Close Focus Distance 100mm~ 1000mm (0.33ft~3.28ft)			
PTZ				

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

Pan/Tilt Range



	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 ~ +70°C (-40°F ~ +158°F) / Less than 95% RH			
	Ingress Protection	IP66			
	Construction				
	Casing	Metal			
	Dimensions	341 mm $\times$ 262mm× 275mm (13.42" x 10.31" x 10.82" (With bracket)			
	Net Weight	7.5Kg (16.53 lb)			

11Kg (24.25 lb)

Gross Weight

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 II	dering Information					
Туре	Part Number	Description				
DH-TPC-	DH-TPC-PT8620MP-B19Z30 DH-TPC-PT8620MN-B19Z30	Thermal: 640x512 19mm lens Visible: 2MP 30X				
PT8620M-B	DH-TPC-PT8620MP-B25Z30 DH-TPC-PT8620MN-B25Z30	Thermal: 640x512 25mm lens Visible: 2MP 30X				

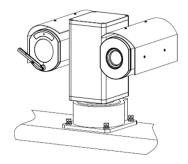
## **Accessories**

Included:



DC12V/5A **Power Supply** 

# **Mounting Type**



# **Dimensions (mm)**

