

DH-TPC-PT8420M-B

Thermal Network Mobile Hybrid Pan & Tilt Camera



- · 400x300 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
- · 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













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.

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.



Pan/Tilt Range



Technical Specification			
Thermal Camera			
Image Sensor	Uncooled VOx Microbolometer		
Effective Pixels	400(H)x300(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	10011201121100		
Lens Type	Fixed		
Focus Control			
	Athermalized, Focus-free 19mm	25mm	
Focal Length Angle of View	H:20.4°, V:15.3°	H:15.5°, V:11.6°	
Efforting District (1)	D②:640m	D:1000m	
Effective Distance(1) Man(1.8m*0.5m)	R③: 160m I ④: 80m	R:250m I:125m	
	D:2000m	D:3000m	
Effective Distance Vehicle(2.3m*2.3m)	R:500m I : 250m	R: 720m I: 360m	
Visible Camera			
Image Sensor	1/1 0" Conv.CMOC		
Effective Pixels	1/1.9" Sony CMOS		
	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		
/isible Lens			
Focal Length	6 ~ 180mm		
Max Aperture	F1.5 ~ F4.3		
Angle of View	H: 59° ~ 2.4°		
Ontical Zoom	30v		
Optical Zoom	30x		
Focus Control	Auto / Manual		
Close Focus Distance	100mm~ 1000mm (0.33ft~3.28ft)		
PTZ			

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



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	$1.0 \text{Vp-p}/75\Omega$, 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	7.5Kg (16.53 lb)			
Gross Weight	11Kg (24.25 lb)			

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- PT8420M-B	DH-TPC-PT8420MP-B19Z30 DH-TPC-PT8420MN-B19Z30	Thermal: 400x300 19mm lens Visible: 2MP 30X			
	DH-TPC-PT8420MP-B25Z30 DH-TPC-PT8420MN-B25Z30	Thermal: 400x300 25mm lens Visible: 2MP 30X			

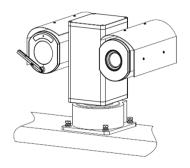
Accessories

Included:



DC12V/5A **Power Supply**

Mounting Type



Dimensions (mm)

