

DH-TPC-PT8620M

Thermal Network Mobile Hybrid Pan & Tilt Camera



- · 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
- · 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 +70 °C (-40 °F to +158 °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					Manual Control Speed	Pan: 0.1° ~60° /s; Tilt: 0.1° ~45° /s
Thermal Camera				Preset Speed	Pan: 0.1° ~90° /s ;Tilt: 0.1° ~60° /s	
Image Sensor	Uncooled VOx Microbolometer			Preset	300	
Effective Pixels	640(H)x512(V)			PTZ Mode	5 Auto Scan, 8 Tour, 5 Pattern, Auto Pan	
Pixel Size	17um			Speed Setup	Human-oriented focal length/ speed adaptation	
Thermal Sensitivity(NETD)	<40mK@f/1.0			Power up Action	Auto restore to previous PTZ and lens status	
Spectral Range	7~14um			·	after power failure	
Image Setting	Brightness/Sharpness/ROI/AGC/FFC/3D DNR			Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period	
Color Palettes	14(Whitehot/Blackhot/Ironrow/Icefire/ Fusion/Rainbow/Globow/Iconbow1/ Iconbow2 .etc)			Protocol	DH-SD, Pelco-P/D (Auto recognition)	
Thermal Lens			Video			
Lens Type	Fixed				Compression	H.264 / MJPEG
Focus Control	Athermalized, Focus-free				Main Stream: Thermal: 1280x1024(default) / 720P @1~25/30fps Visible: 1080P(default) /720P @1~25/30fps	
Focal Length	19mm	25mm	35mm	50mm	Frame Rate	Sub Stream:
Angle of View	H:32°, V:26°	H:25°, V:20°	H:18°, V:14°	H:12.4°, V:9.9°		Thermal: 640x512(default) / 320x256 @1~25/30fps Visible: CIF(default) / D1 @1~25/30fps
Effective Distance 1	D②:640m R③: 160m	D:1000m R:250m	D:1300m R:320m	D:1700m R: 430m	Bit Rate Control	CBR / VBR
Man(1.8m*0.5m)	I 4: 80m	I: 125m	I : 160m	I : 220m	Bit Rate	H.264: 640 ~8192Kbps
Effective Distance	D:2000m R:500m	D:3000m R: 720m	D:4000m R: 1000m	D:5000m R: 1400m	Day/Night	Auto(ICR) / Color / B/W
Vehicle(2.3m*2.3m)	1 : 250m	I: 360m	I : 500m	I : 700m	BLC Mode	BLC / HLC / WDR
Visible Camera					White Balance	Auto / ATW / Indoor / Outdoor / Manual
Image Sensor	1/1.9" Sony CMOS			Noise Reduction	3D DNR	
Effective Pixels	1944(H)x1092(V)			Motion Detetion	Off / On (4 zone, Rectangle)	
Electronic Shutter Speed	1/1~1/30,000s			Region of Interest	Off / On (4 zone)	
Min. Illumination	0.001Lux@F1.5(Color), 0.0001Lux@F1.5(B/W)			Electronic Image Stabilization (EIS)	NA	
S/N Ratio	More than 5	More than 55dB			Defog	Off / On
IR Distance	150m (492f	t)			Digital Zoom	24x
IR On/Off Control	Auto / Manu	Auto / Manual			Flip	180°
IR LEDs	4				Mirror	Off / On
Visible Lens			Privacy Masking	Off / On (4 area, Rectangle)		
Focal Length 6 ~ 180mm			Audio			
Max Aperture	F1.5 ~ F4.3			Compression	G.711A / G.711Mu / AAC	
Angle of View	H: 59° ~ 2.4°			Intelligence		
Optical Zoom	30x			IVS	Tripwire, Intrusion, Object Abandoned/Missing	
Focus Control	Auto / Manual			Advanced Intelligent Functions	Fire detection & alarm, Auto Tracking	
Close Focus Distance	100mm ~ 1000mm (0.33ft~3.28ft)			Tracking Trigger Mode	Manual / Auto (alarm triggered)	
PTZ				Tracking Trigger Event	Targeting, Zoom, Tracking, Recording, Snapshot,	
Pan/Tilt Range	Pan: 0° ~ 360° endless;Tilt:-90° ~ 90°			HOCKING HIGGE LYCIIL	Alarm and etc.	



Network		
Ethernet	RJ-45 (10/100Base-T)	
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x	
Interoperability	ONVIF Profile S&G, PSIA, CGI	
Streaming Method	Unicast / Multicast	
Max. User Access	10 Users / 20 Users	
Edge Storage	Micro SD (128GB) 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	Max. 50W (IR on)

Environmental		
Operating Condition	-40°C $^{\sim}$ +70°C (-40°F $^{\sim}$ +158°F) / Less than 95% R * 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)

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- 1 Effective distance values shown are nominal values and should be used as estimatesonly. Exact value calculations depend on a wide variety of conditions.
- 2 D:Detection Distance
 3 R: Recognition Distance
 4 I: Identification Distance

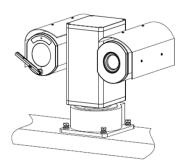
Ordering Information				
Туре	Part Number	Description		
	DH-TPC-PT8620MP-A19 DH-TPC-PT8620MN-A19	Thermal: 640x512 19mm lens Visible: 2MP 30X		
DH-TPC-	DH-TPC-PT8620MP-A25 DH-TPC-PT8620MN-A25	Thermal: 640x512 25mm lens Visible: 2MP 30X		
PT8620M	DH-TPC-PT8620MP-A35 DH-TPC-PT8620MN-A35	Thermal: 640x512 35mm lens Visible: 2MP 30X		
	DH-TPC-PT8620MP-A50 DH-TPC-PT8620MN-A50	Thermal: 640x512 50mm lens Visible: 2MP 30X		

Accessories

Mounting Type

Included:





Dimensions (mm)

