

## DH-TPC-PT8620-T

Thermal Network Hybrid PTZ



## System Overview

Featuring a dual lens, Pan/Tilt/Zoom(PTZ) camera, this series provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with Thermal and Starlight Technology, the camera is the perfect solution for dark, long rang monitoring applications. The series combines one thermal camera for monitoring in total darkness and one visible camera with starlight feature and motorized lens for confirming details.

## Functions

## Uncooled Vox Technology

Dahua thermal cameras use uncooled Vox sensor technology . Because of small size and better performance, it's cost-effective solution for thermal security.

## **High Sensitivity**

High thermal sensitivity(<40mK) makes cameras capture more image details and temperature difference information.

## Fire Detect&Alarm

With built-in Fire detect function, the camera has the ability to detect fire in a long distance. because thermal camera is sensitive to temperature, so the accuracy of Fire detect will be higher than visible camera. especially useful for forest fire prevention.

## Temperature Measurement

Dahua thermal camera (-T Model) can be used for remote temperature monitoring with the possibility to set temperature alarms. Measure the objects' temperature whatever daytime or night. It is ideal for remote monitoring of power generating facilities. It'll trigger an alarm when temperature over threshold. Temperature range is between-40 °C to 550 °C (-40 °F to 1022 °F).

- 640\*512 VOx uncooled thermal sensor technology
- · Athermalized Lens(thermal),Focus-free
- 1/1.9" 2Megapixel progressive scan Exmor CMOS
- · Powerful 30x optical zoom
- Support temperature measurement
- · Support Fire detect&alarm
- Max 160°/s pan speed, 360° endless pan rotation
- · Up to 300 presets, 5 auto scan, 8 tour, 5 pattern
- $\cdot$  7/2 alarm in/out
- Micro SD memory, IP66



## Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed.

## 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

Supporting  $\pm 25\%$  input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of lightning.



## Ultra Series | DH-TPC-PT8620-T

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## **Technical Specification**

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/DDE/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	25mm	60mm	100mm
Angle of View	25°* 20 °	10.4°* 8.3 °	6.2 °* 5 °
Effective Distance① Man(1.8m*0.5m)	D②:950m R③:230m I④:120m	D:2000m R:500m I :260m	D:3000m R:750m I :400m
Effective Distance Vehicle(2.3m*2.3m)	D:2800m R:720m I :360m	D:6000m R:1600m I :800m	D:9000m R:2300m I :1200m

## Visible Camera

Image Sensor	1/1.9" Exmor CMOS
Effective Pixels	1944(H) x 1092(V), 2 Megapixels
Electronic Shutter Speed	1/1~1/30,000s
Min. Illumination	Color: 0.001Lux@F1.5; B/W: 0.0001Lux@F1.5;
S/N Ratio	More than 56dB
IR Distance	NA
IR On/Off Control	NA
IR LEDs	NA
Visible Lens	
Focal Length	6mm~180mm
Max Aperture	F1.5 ~ F4.3
Angle of View	H: 61.2° ~ 2.32°
Optical Zoom	30x
Focus Control	Auto / Manual
Close Focus Distance	100mm~ 1000mm (328ft~3280ft)
PTZ	
Pan/Tilt Range	Pan: 0° ~ 360° endless;Tilt:-40° ~ 90°
Manual Control Speed	Pan: 0.1° ~160° /s; Tilt: 0.1° ~60° /s

Preset Speed	Pan: 0.1° ~160° /s ;Tilt: 0.1° ~60° /s
Preset	300
PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan
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(Base profile/Main profile/High profile)/ MJPEG
Frame Rate	Main Stream: Thermal: 1280*1024 (default)/ 720P @30fps Visible: 1080P (default)/720P@30fps
	Sub Stream: Thermal: 640*512 (default)/ 320*256 @15fps Visible: CIF(default)/D1@15fps
Bit Rate Control	CBR / VBR
Bit Rate	H.264: 1280K ~14Mbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto, ATW,Indoor, Outdoor, Manual
Noise Reduction	Ultral 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	24x
Flip	180°
Mirror	Off/On
Privacy Masking	Off / On (4 area, Rectangle)
Temperature Measureme	ent
Measurement range	Low Gain:-40°C ~+550°C High Gain:-40°C ~+160°C
Measurement accuracy	Max(±2°C,±2%)
Measurement mode	Spot/Line/Area
Measurement preset	Spot:8 Line:1 Area:8 Support 8 presets simultaneously
Audio	
Compression	G.711a/G.711Mu/AAC

## Ultra Series | DH-TPC-PT8620-T



Intelligent FunctionAuto TrackingSupportIvS (optional)Tripwire, Intrusion, Object Detection(People&Vehicle), Abandon detection, Pire detection, Fire detect& alarm .etc.Tracking Trigger ModeManual / Auto (alarm triggered)Tracking Trigger EventTargeting, Zoom, Tracking, Recording, Snapshot, Alarm and etc.NetworkIterepresentEthernetRI-45 (10/100Base-T)ProtocolIPV4/ IPV6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPP, PIOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.124InteroperabilityONVIF PSIA CGIMax. User Access20Keb Viewer <el11, <chrome44,="" firefox<="" td="">Management SoftwareSmart PSS, DSSSmart PhoneAndroid, IosCertificationsInterofice ConstructionsCertificationsInderoj. PSS, PSS, PSS, PSS, PSS, PSS, PSS, PSS</el11,>
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Audio Interface     Input/Output 1 Input / 1 Output       RS485     Support       Alarm     7/2 In/Out
RS485     Support       Alarm     7/2 In/Out
Alarm 7/2 In/Out
Electrical
Power Supply 24V AC ±25%
Power Consumption Max. 70W (24V AC, Heater on),
Environmental
$\label{eq:operating} \begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\label{eq:strong} Strorage \mbox{ Conditions } -40^\circ\mbox{C}\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
Ingress Protection IP66
Construction
Casing Metal

## 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
(3) R: Recognition
(4) I: Identification

Ordering	Information
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Туре	Part Number	Description
DH-TPC- PT8620-T	DH-TPC-PT8620P-TA25 DH-TPC-PT8620N-TA25	Thermal:640*512 25mm lens Visible:2Mp 30X Temperature measurement
	DH-TPC-PT8620P-TA60 DH-TPC-PT8620N-TA60	Thermal:640*512 60mm lens Visible:2Mp 30X Temperature measurement
	DH-TPC-PT8620P-T100 DH-TPC-PT8620N-T100	Thermal:640*512 100mm lens Visible:2Mp 30X Temperature measurement

### Accessories

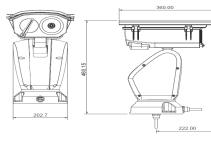
Included:

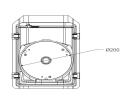


## Mounting Type



## Dimensions (mm)





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360mm x 252mm x 464mm (14.17" x 9.92" x 18.27")

17Kg (37.48 lb) 18.5Kg(40.79 lb)

Dimensions Net Weight

Gross Weight