

DH-TPC-SD8620-TB

Thermal Network Hybrid Speed Dome Camera



System Overview

Featuring a dual lens speed dome 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.

Temperature Measurement

Dahua thermal cameras (-T models) provide remote temperature monitoring functionality with the ability to set temperature threshold alarms. Object temperatures can be monitored in daytime or at night, making them ideal for usage in power plant or oil extraction applications where overheating can be dangerous. When the temperature exceeds the set threshold, an alarm is triggered. The temperature range is between-20 °C to 550 °C (-4 °F to 1022 °F).

- 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 240°/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)

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.

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 allows for ±15% input voltage tolerance, 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-SD8620-TB

Technical Specification

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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	25mm	35mm		
Angle of View	H:24.6°, V:19.8°	H:17.2°, V:13.8°		
Effective Distance① Man(1.8m*0.5m)	D②:1000m R③:250m I ④ :125m	D:1300m R:320m I : 160m		
Effective Distance Vehicle(2.3m*2.3m)	D:3000m R:720m I :360m	D:4000m R: 1000m I : 500m		
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)	150m (492ft)		
IR On/Off Control	Auto / Manual	Auto / Manual		
IR LEDs	4			
Visible Lens				
Focal Length	6mm~180mm			
Max Aperture	F1.5 ~ F4.3			
Angle of View	H: 59° ~ 2.4°			
Optical Zoom	30x	30x		
Focus Control	Auto / Manual			
Close Focus Distance	100mm~ 1000mm (0.33ft~3.28ft)			
PTZ				
Pan/Tilt Range	Pan: 0° ~ 360° endless;Tilt:-10° ~ 90°			
Manual Control Speed	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s			





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ONVIF Profile S&G, PSIA, CGI

<IE11, <Chrome45, <Firefox52

Memory status display (Normal / Error / Active /

CE (EN 60950:2000) FCC (FCC Part 15 SubpartB)

1.0Vp-p/75Ω, PAL / NTSC (HDCVI Optional)

Input/Output 1 Input / 1 Output

17W, Max. 38W (Heater, LEDs on)

Φ240mm x 382mm (Φ9.45" x 15.04")

-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH

-40°C $\,\,^{\sim}$ +70°C (-40°F $\,^{\sim}$ +158°F)) / Less than 95% RH

* Start up should be done at above-40°C (-40°F)

NAS (Network Attached Storage), Local PC for instant

Unicast / Multicast

10 Users / 20 Users

Micro SD (256GB)

Formatting / Lock),

recording

Smart PSS, DSS

Android, iOS

Support

7/2 In/Out

IP66

Metal

6.8Kg (14.99 lb)

9.5Kg (20.94 lb)

AC 24V/3A±15%



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

Ordering Information			
Туре	Part Number	Description	
DH-TPC- SD8620-TB	DH-TPC-SD8620P-TB25Z30 DH-TPC-SD8620N-TB25Z30	Thermal: 640x512 25mm lens Visible: 2MP 30X Temperature measurement	
	DH-TPC-SD8620P-TB35Z30 DH-TPC-SD8620N-TB35Z30	Thermal: 640x512 35mm lens Visible: 2MP 30X Temperature measurement	

Accessories

PFA111

Mount Adapter

PFA140

Power box

PFA150

Pole Mount

Included:

Optional:





AC24V/3A

Power Supply



PFB303W Wall Mount







PFB300C Ceiling Mount





Corner Mount

Dimensions (mm)







Interoperability

Streaming Method

Max. User Access

Edge Storage

Web Viewer

Smart Phone

Interface Video Interface

Audio Interface

RS485

Alarm

Electrical Power Supply

Power Consumption Environmental

Operating Conditions

Storage Conditions

Ingress Protection

Construction

Casing

Dimensions Net Weight

Gross Weight

Certifications Certification

Management Software



Mounting Type

Ceiling Mount	Junction Mount
PFA111 + PFB300C	PFA111 + PFB303W + PFA120
Power Box Mount	Pole Mount
PFA111 + PFB303W + PFA140	PFA111 + PFB303W + PFA150
Corner Mount	Parapet Mount
PFA111 + PFB303W + PFA151	PFA111+ PFB303S