

DH-TPC-SD8320-T

Thermal Network Hybrid Speed Dome Camera

www.PadVokam.by



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-40 °C to 550 °C (-40 °F to 1022 °F).

- · 336x256 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
- · 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.

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 enviorments 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.





Technical Specification				
Thermal Camera				
Image Sensor	Uncooled VOx Microbolometer			
Effective Pixels	336(H)x256(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. I	Athermalized, Focus-free		
Focal Length	25mm	35mm	50mm	
Angle of View	H:13°, V:10°	H:9.3°, V:7.1°	H:6.5°, V:5°	
Man/1 8m*0 Fm)	D2:1000m	D:1300m	D:1700m R: 430m I : 220m	
	R(3):250m I (4):125m	R:320m I : 160m		
Effective Distance	D:3000m	D:4000m	D:5000m	
Vehicle(2.3m*2.3m)	R:720m I :360m	R: 1000m I : 500m	R: 1400m I : 700m	
Visible Camera				
Image Sensor	1/1.9" Sony CM	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	0.001Lux@F1.5(Color), 0.0001Lux@F1.5(B/W)		
S/N Ratio	More than 55d	More than 55dB		
IR Distance	150m (492ft)			
IR On/Off Control	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			
Focus Control	Auto / Manual			
Close Focus Distance 100mm~ 1000mm (0.33ft~3.28ft)				
PTZ				
Pan/Tilt Range	Pan: 0° ~ 360° 6	endless;Tilt:-20° ~	90°	
Manual Control Speed	Pan: 0.1° ~200°	'/s; Tilt: 0.1° ~120)°/s	



Intelligence				
IVS	Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intelligent Functions	Fire detection & alarm, Auto Tracking			
Tracking Trigger Mode	Manual / Auto (alarm triggered)			
Tracking Trigger Event	Targeting, Zoom, Tracking, Recording, Snapshot, Alarm and etc.			
Network				
Ethernet	RJ-45 (10/100Base-T)			
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SMMP, 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)			
Intelface				
Video Interface	$1.0 \text{Vp-p/75}\Omega$, PAL / NTSC (HDCVI Optional)			
Audio Interface	Input/Output 1 Input / 1 Output			
RS485	Support			
Alarm	7/2 In/Out			
Electrical				
Power Supply	24V AC ±15%			
Power Consumption	Max. 38W (24V AC, Heater on)			
Environmental				
Operating Condition	-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)			
Strorage Conditions	-40°C $^{\sim}$ +70°C (-40°F $^{\sim}$ +158°F)) / Less than 95% RH			
Ingress Protection	IP66			
Construction				
Casing	Metal			
Dimensions	Ф240mm x 382mm (Ф9.45" x 15.04")			
Net Weight	6.8Kg (14.99 lb)			
Gross Weight	9.5Kg (20.94 lb)			

- 1) Effective distance values shown are nominal values and should be used as estimates
- (2) D:Detection Distance

 (3) R: Recognition Distance

 (4) I: Identification Distance

Ordering Information					
Туре	Part Number	Description			
	DH-TPC-SD8320P-TA25 DH-TPC-SD8320N-TA25	Thermal: 336x256 25mm lens Visible: 2MP 30X Temperature measurement			
DH-TPC- SD8320-T	DH-TPC-SD8320P-TA35 DH-TPC-SD8320N-TA35	Thermal: 336x256 35mm lens Visible: 2MP 30X Temperature measurement			
	DH-TPC-SD8320P-TA50 DH-TPC-SD8320N-TA50	Thermal: 336x256 50mm lens Visible: 2MP 30X Temperature measurement			

Accessories

Included:







Temperature measurement

PFA111 Mount Adapter

AC24V/3A Power Supply

PFB303W Wall Mount

Optional:



PFA140 Power box



Ceiling Mount



PFA120 Junction Box

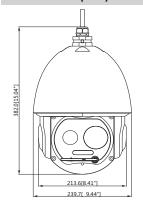


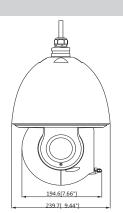
PFA150 Pole Mount



PFA151 Corner Mount

Dimensions (mm)







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