

DH-TPC-SD8320-T

Thermal Network Hybrid Dome Camera



System Overview

Featuring a dual lens, speed dome 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).

- · 384*288 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 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)

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.



Manual Control Speed



Technical Specification				Preset Speed	Pan: 0.1° ~240° /s ;Tilt: 0.1° ~200° /s
Thermal Camera				Preset	300
Image Sensor	Uncooled VOx	Uncooled VOx Microbolometer		PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan
Effective Pixels	384(H)x288(V)	384(H)x288(V)		Speed Setup	Human-oriented focal length/ speed adaptation
Pixel Size	17um			Power up Action	Auto restore to previous PTZ and lens status
Thermal Sensitivity(NETD)	<40mK@f/1.0			rowel up Action	after power failure
Spectral Range	7~14um	7~14um		Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period
Image Setting	Brightness/Sha	Brightness/Sharpness/ROI/DDE/AGC/FFC/3D DNR		Protocol	DH-SD, Pelco-P/D (Auto recognition)
Color Palettes		14(Whitehot/Blackhot/Ironrow/Icefire/ Fusion/Rainbow/Globow/Iconbow1/ Iconbow2, etc)		Video	H.264(Base profile/Main profile/High profile)/
Thermal Lens				Compression	MJPEG
Lens Type	Fixed				Main Stream: Thermal: 1280*1024 (default)/ 720P @30fps
Focus Control	Athermalized,	ocus-free		Frame Rate	Visible: 1080P (default)/720P@30fps Sub Stream:
Focal Length	25mm	35mm	50mm		Thermal: 640*512 (default)/ 320*256 @15fps Visible: CIF(default)/D1@15fps
Angle of View	13°* 10°	9.3°* 7.1 °	6.5°* 5 °	Bit Rate Control	CBR / VBR
Effective Distance 1	D(2):820m	D:1150m	D:1500m	Bit Rate	H.264: 1280K ~14Mbps
Man(1.8m*0.5m)	R③:210m I ④ :100m	R:280m I :140m	R:400m I :200m	Day/Night	Auto(ICR) / Color / B/W
Effective Distance	D:2200m R:600m	D:3000m R:800m	R:1000m	BLC Mode	BLC / HLC / WDR(120dB)
Vehicle(2.3m*2.3m)	1:300m	I :400m		White Balance	Auto, ATW,Indoor, Outdoor, Manual
Visible Camera				Noise Reduction	Ultral DNR
Image Sensor	1/1.9" Exmor (CMOS		Motion Detetion	Off / On (4 zone, Rectangle)
Effective Pixels	1944(H) x 1092	1944(H) x 1092(V), 2 Megapixels		Region of Interest	off/On (4 zone)
Electronic Shutter Speed	1/1 ~ 1/30,000	1/1 ~ 1/30,000s		Electronic Image Stabilization (EIS)	NA
Min. Illumination	Color: 0.001Lu	Color: 0.001Lux@F1.5; B/W: 0.0001Lux@F1.5;		Defog	Off/On
S/N Ratio	More than 560	dΒ		Digital Zoom	16x
IR Distance	150m			Flip	180°
IR On/Off Control	Auto/Manual			Mirror	Off/On
IR LEDs	9			Privacy Masking	Off / On (4 area, Rectangle)
Visible Lens				Temperature Measuren	nent
Focal Length	6mm~180mm		Measurement range	Low Gain:-40°C ~+550°C	
Max Aperture	Aperture F1.5 ~ F4.3			High Gain:-40°C ~+160°C	
Angle of View	H: 61.2° ~ 2.32	•		Measurement accuracy	Max(±2°C,±2%)
Optical Zoom	20v		Measurement mode	Spot/Line/Area	
Focus Control		30x Auto / Manual		Measurement preset	Spot:8 Line:1 Area:8 Support 8 presets simultaneously
Close Focus Distance	100mm~ 1000mm (328ft~3280ft)		Audio		
PTZ				Compression	G.711a/G.711Mu/AAC
Pan/Tilt Range	Pan: 0° ~ 360°	endless;Tilt:-20°	~ 90°		

Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s



Intelligent Function

Auto Tracking	Support
IVS (optional)	Tripwire, Intrusion, Object Detection(People&Vehicle), Abandon detection, Missing detection, Fire detect& alarm .etc.
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, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF PSIA CGI
Streaming method	Unicast / Multicast
Max. User Access	20
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, <chrome44,="" firefox<="" td=""></ie11,>
Management Software	Smart PSS, DSS
Smart Phone	Android, los

Certifications

Intelface

Video Interface	1.0Vp-p/75Ω, PAL / NTSC (HDCVI Optional)
Audio Interface	Input/Output 1 Input / 1 Output
RS485	Support
Alarm	7/2 In/Out

Electrical

Power Supply	24V AC ±25%
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 ~+70°C (-40°F ~ +158°F)) / Less than 95% RH
Ingress Protection	IP66

Construction

Casing	Metal
Dimensions	Ф240mm x 464mm (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
- only. Exact value calculations depend on a wide variety of conditions.
- ②D:Detection
 ③R: Recognition
 ④I: Identification

Ordering Information			
Туре	Part Number	Description	
	DH-TPC-SD8320P-TA25 DH-TPC-SD8320N-TA25	Thermal:336*256 25mm lens Visible:2Mp 30X Temperature measurement	
DH-TPC- SD8320-T	DH-TPC-SD8320P-TA35 DH-TPC-SD8320N-TA35	Thermal:336*256 35mm lens Visible:2Mp 30X Temperature measurement	
	DH-TPC-SD8320P-TA50 DH-TPC-SD8320N-TA50	Thermal:336*256 50mm lens Visible:2Mp 30X Temperature measurement	

Accessories

Included:



PFA111 Mount Adapter



AC24V/3A **Power Supply**

Optional:



PFA140 Power box



PFB300C Ceiling Mount



PFB303W Wall Mount



PFA150 Pole Mount

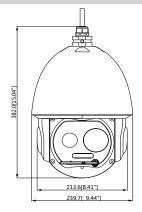


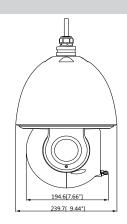
PFA151 Corner Mount



PFA120 Junction Box

Dimensions (mm)







Mounting Type

Cailing Manuat	Junction Mount
Ceiling 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