

DH-TPC-SD8320

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.

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.

- · 336*256 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













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



					TECHNOLOGY
Technical Specification				Preset Speed	Pan: 0.1° ~240° /s ;Tilt: 0.1° ~200° /s
Thermal Camera	ermal Camera		Preset	300	
Image Sensor	Uncooled VOx Microbolometer		PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan	
Effective Pixels	336(H)x256(V)	336(H)x256(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			roner aprication	after power failure
Spectral Range	7~14um			Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period
Image Setting	Brightness/Sharpness/ROI/DDE/AGC/FFC/3D DNR		Protocol	DH-SD, Pelco-P/D (Auto recognition)	
Color Palettes	14(Whitehot/Blackhot/Ironrow/Icefire/ olor Palettes Fusion/Rainbow/Globow/Iconbow1/ Iconbow2 .etc)		Video	H.264(Base profile/Main profile/High profile)/	
Thermal Lens				Compression	MJPEG
Lens Type				Main Stream: Thermal: 1280*1024 (default)/ 720P @30fps Visible: 1080P (default)/720P@30fps	
Focus Control	Athermalized,F	ocus-free		Frame Rate	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 R(3):210m	D:1150m	D:1500m	Bit Rate	H.264: 1280K ~14Mbps
Man(1.8m*0.5m)	I 4 :100m	R:280m I :140m	R:400m I :200m	Day/Night	Auto(ICR) / Color / B/W
Effective Distance	D:2200m	D:3000m	D:4000m	BLC Mode	BLC / HLC / WDR(120dB)
Vehicle(2.3m*2.3m)	R:600m I :300m	R:800m I :400m	R:1000m I:550m	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	dВ		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				Audio	
Focal Length	6mm~180mm		Compression	G.711a/G.711Mu/AAC	
Max Aperture F1.5 ~ F4.3		Intelligent Function			
Angle of View	H: 61.2° ~ 2.32°		Auto Tracking	Support	
Optical Zoom	30x		IVS (optional)	Tripwire, Intrusion, Object Detection(People&Vehicle), Abandon detection,	
Focus Control	Auto / Manual	Auto / Manual		Tracking Trigger Mode	Missing detection, Fire detect& alarm .etc. Manual / Auto (alarm triggered)
Close Focus Distance	100mm~ 1000mm (328ft~3280ft)			Targeting, Zoom, Tracking, Recording, Snapshot,	
PTZ	PTZ		Tracking Trigger Event	Alarm and etc.	
Pan/Tilt Range	Pan: 0° ~ 360°	endless;Tilt:-20°	~ 90°		
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Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s



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

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

Intelface

Video Interface	1.0Vp-p/75 Ω , 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	Φ240mm x 464mm (Φ9.45" 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

 (3) R: Recognition

 (4) I: Identification

Ordering Information			
Туре	Part Number	Description	
	DH-TPC-SD8320P-A25 DH-TPC-SD8320N-A25	Thermal:336*256 25mm lens Visible:2Mp 30X	
DH-TPC- SD8620	DH-TPC-SD8320P-A35 DH-TPC-SD8320N-A35	Thermal:336*256 35mm lens Visible:2Mp 30X	
	DH-TPC-SD8320P-A50 DH-TPC-SD8320N-A50	Thermal:336*256 50mm lens Visible:2Mp 30X	
Accorcorios			

Accessories

Included:



Mount Adapter



AC24V/3A Power Supply

Optional:



PFA140 Power box



PFB300C Ceiling Mount



PFB303W Wall Mount



PFA150 Pole Mount

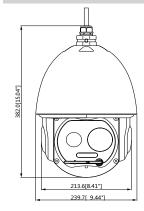


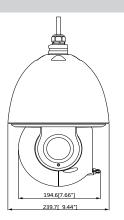
PFA151 Corner Mount



Junction Box

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