

DH-TPC-SD8320

Thermal Network Hybrid Speed Dome Camera

www.PadVokam.by



- · 336x256 VOx uncooled thermal sensor technology
- · Athermalized Lens(thermal), Focus-free
- · 1/1.9" 2Megapixel progressive scan Sony CMOS
- · Powerful 30x optical zoom
- · 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













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.

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 environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Protection

The camera allows for $\pm 15\%$ 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-SD8320



Technical Specification				Preset Speed	Pan: 0.1° ~240° /s ;Tilt: 0.1° ~200° /s
Thermal Camera				Preset	300
Image Sensor	Uncooled VOx	Microbolometer		PTZ Mode	5 Auto Scan, 8 Tour, 5 Pattern, Auto Pan
Effective Pixels	336(H)x256(V)			Speed Setup	Human-oriented focal length/ speed adaptatio
Pixel Size	17um			Power up Action	Auto restore to previous PTZ and lens status
Thermal Sensitivity(NETD)	<40mK@f/1.0			. ower apricals.	after power failure
Spectral Range	7~14um			Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is r command in the specified period
Image Setting	Brightness/Sha	rpness/ROI/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 Compression	H.264 / MJPEG
Thermal Lens				Compression	n.204/ Wured
Lens Type	Fixed				Main Stream: Thermal: 1280x1024(default) / 720P @1~25/30
Focus Control				Frame Rate	Visible: 1080P(default) /720P @1~25/30fps
Focal Length	25mm	35mm	50mm		Sub Stream: Thermal: 640x512(default) / 320x256 @1~25/3 Visible: CIF(default) / D1 @1~25/30fps
Angle of View	H:13°, V:10°	H:9.3°, V:7.1°	H:6.5°, V:5°	Bit Rate Control	CBR / VBR
Effective Distance $\widehat{(1)}$	D②:1000m	D:1300m	D:1700m	Bit Rate	H.264: 640 ~8192Kbps
Man(1.8m*0.5m)	R③:250m I ④ :125m	R:320m I : 160m	R: 430m I : 220m	Day/Night	Auto(ICR) / Color / B/W
Effective Distance	D:3000m	D:4000m	D:5000m R: 1400m I : 700m	BLC Mode	BLC / HLC / WDR
Vehicle(2.3m*2.3m)	R:720m I :360m	R: 1000m I : 500m		White Balance	Auto / ATW / Indoor / Outdoor / Manual
Visible Camera				Noise Reduction	3D DNR
Image Sensor	1/1.9" Sony CN	10S		Motion Detetion	Off / On (4 zone, Rectangle)
Effective Pixels	1944(H)x1092((V)		Region of Interest	Off / On (4 zone)
Electronic Shutter Speed	1/1 ~ 1/30,000	ls		Electronic Image Stabilization (EIS)	NA
Min. Illumination	0.001Lux@F1.5	5(Color), 0.0001Lu	ıx@F1.5(B/W)	Defog	Off / On
S/N Ratio	More than 55d	В		Digital Zoom	16x
IR Distance	150m (492ft)			Flip	180°
IR On/Off Control	Auto / Manual			Mirror	Off / On
IR LEDs	4			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			Intelligence	
Angle of View	H: 59° ~ 2.4°			ivs	Tripwire, Intrusion, Object Abandoned/Missing
Optical Zoom	30x			Advanced Intelligent Functions	Fire detection & alarm, Auto Tracking
Focus Control	Auto / Manual				
Close Focus Distance	100mm~ 1000	mm (0.33ft~3.28f	Ēt)	Tracking Trigger Mode	Manual / Auto (alarm triggered)
PTZ				Tracking Trigger Event	Targeting, Zoom, Tracking, Recording, Snapshot Alarm and etc.
Pan/Tilt Range	Pan: 0° ~ 360°	endless;Tilt:-20° ~	· 90°		



	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 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 ~ +70°C (-40°F ~ +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

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

9.5Kg (20.94 lb)

Ordering Information						
Туре	Part Number	Description				
	DH-TPC-SD8320P-A25 DH-TPC-SD8320N-A25	Thermal: 336x256 25mm lens Visible: 2MP 30X				
DH-TPC- SD8620	DH-TPC-SD8320P-A35 DH-TPC-SD8320N-A35	Thermal: 336x256 35mm lens Visible: 2MP 30X				
	DH-TPC-SD8320P-A50 DH-TPC-SD8320N-A50	Thermal: 336x256 50mm lens Visible: 2MP 30X				
Accessica						

Accessories

Included:







Power Supply

PFB303W Wall Mount

Optional:



PFA140 Power box



PFB300C Ceiling Mount



PFA120 Junction Box

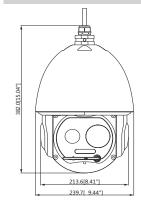


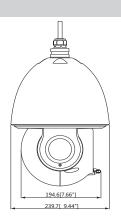
PFA150 Pole Mount



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	