



# DH-SDT8C442-4P-GA-APV-0280

4MP 42x Starlight Dual Light Network Panoramic PTZ Camera





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive Al solutions for verticals.

## **System Overview**

The multi-sensor series pushes the bar on PTZ cameras with its enhanced monitoring capabilities captured in its unique lens design. Fitted with an extra lens, it quickly tracks targets while keeping an eye on the monitored area. They also harness the strength of their embedded AI intelligent chip to perform a wide variety of intelligent functions, making them ideal for use in many scenarios.

# **Functions**

### Protection (IP67, TVS 8000 V)

IP67, TVS 8000 V lightning proof, surge protection, and voltage transient protection.

#### **Perimeter Protection**

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

- · Panorama: 2×2 MP 1/1.8" CMOS image sensor; Detail: 4MP 1/1.8" CMOS image sensor.
- · 42x optical zoom.
- · Max. 25/30fps@4M.
- · IR distance up to 300 m.
- · Auto-tracking 3.0.
- · Perimeter protection.
- · Face detection.
- · wiper.
- · IP67.
- · PoE++ (802.3bt).











#### Video Metadata

Metadata is information on the attributes of targets that is extracted during monitoring. It can be used for data retrieval. There are four kinds of metadata supported by Dahua PTZ WizMind cameras: Human face, human body, motor vehicle and non-motor vehicle. Face information includes gender, age, glasses, masks, beards, and more. Human body information includes hat, top, top color, bottom, bottom color, bag, and more. Motor vehicle information includes plate color, type, vehicle color, sun visor, ornament, calling, seatbelt, smoking, annual inspection sticker, and more. Non-motor vehicle information includes type, color, top type, top color, people number, and more.

### Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the white light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in one voice, and supports customized voice importing.

# Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

Technical Specification							Pattern	5
Camera							Scan	5
Image Sensor		Panorama: 1/1.8" CMOS; Detail: 1/1.8" CMOS					Power-off Memory	Yes
Pixel		Panorama: 4 MP; Detail: 4 MP					Idle Motion	Pattern; Preset; Scan; Tour
Max. Resolution		Panorama: 3840 (H) $\times$ 1080 (V); Detail: 2560 (H) $\times$ 1440 (V)					PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)
ROM		Detail: 4 GB; Panorama: 4 GB					Intelligence	
RAM		Detail: 1 GB; Panorama: 1 GB					vehicles, faces and human be capturing pictures, and uplos snapshots. It extracts attributed and non-motors, detecting u motor vehicles and 6 for non extracts attributes from hum detecting up to 6 attributes foodies.  Tripwire; intrusion; crossing for the captures and before the captures and the captures are captures and the captures are captures.	Supports detection of motor vehicles, non-motor vehicles, faces and human bodies, optimization, capturing pictures, and uploading high-quality face snapshots. It extracts attributes from motor vehicles and non-motors, detecting up to 10 attributes for motor vehicles and 6 for non-motor vehicles. It also
Electronic Shutter Speed		Panorama: 1s–1/30000s; Detail: 1s–1/30000s						
Scanning System		Progressive						
Min. Illumination		Panorama: 0.001 lux@F1.0 (Color, 30 IRE); 0.0001 lux@F1.0 (B/W, 30 IRE); 0 lux (IR light on)						Tripwire; intrusion; crossing fence detection; loitering
		Detail: 0.001 lux@F1.6 (Color, 30 IRE); 0.0001 lux@F1.6 (B/W, 30 IRE); 0 lux (IR light on)					IVS (Perimeter Protection)	detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification; linkage tracking
Illumination D	Illumination Distance		30 m (white lig	ht); Detail: 300	) m (IR)			Supports face detection, optimization, capturing pictures, uploading high-quality face snapshots and
Illuminator On/Off Control		Zoom Prio; Manual; Smart IR; Off						enhancing face images. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. Face cutout is also offered, where you
Illuminator Nu	Illuminator Number		(white light);	Detail: 6 (IR); 2	(white light)		Face Detection	can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for
Wiper		Wiper						capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group of snapshots.
Lens							Active Deterrence	C. Shapshees.
Focal Length			Panorama: 2.8 mm; Detail: 5.5 mm–231 mm				White light warning;	
Max. Aperture			1.0; Detail: F1		o 2 20. V/.		Light Warning	Flash duration: 5 s-30 s; Flash frequency: high, medium, low
Field of View		36.3°−1.3°; [		Detail: H: 61.8	s –2.2 ; V:		Sound Warning	Offers 22 sound alarms and supports importing custom sound alarms.
Optical Zoom		Detail: 42 ×					Video	
Focus Control		Auto; semi-auto; manual						H.264H; H.264B; Smart H.265+; H.265; MJPEG (Sub
Close Focus Distance		Panorama: 4 m (13.12 ft); Detail: 1 m-8 m (3.28 ft- 26.25 ft)					Video Compression	Stream); Smart H.264+; H.264M
Iris Control		Detail: Auto; manual					Streaming Capability	3 streams  Panorama: 4M (3840 × 1080); 1080p (1920 × 1080);
	Lens	Detect	Observe	Recognize	Identify			1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240); Detail: 4M (2560 × 1440); (2048 × 1536); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640× 480); CIF (352 × 288/352 × 240)
	Panorama	45 m (147.64 ft)	18 m (59.06 ft)	9 m (29.53 ft)	4.5 m (14.76 ft)		Resolution	
DORI	Detail	4620 m (15157.48 ft)	1824.9 m (5987.20 ft)	924 m (3031.50 ft)	462 m (1515.75 ft)			
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system  (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						Video Frame Rate	Panorama:  Main stream: (3840 × 1080) @(1–25/30 fps)  Sub stream 1: (960 × 268)/D1/VGA/CIF @(1–25/30 fps)  Sub stream 2: (1920 × 540)/1080p/1.3M/720p @ (1–25/30 fps)  Detail:  Main stream: 4M(2560 × 1440)/(2048 × 1536)/1080  P/1.3M/720p @(1–25/30 fps)  Sub stream 1: D1/VGA/CIF @(1-25/30 fps)  Sub stream 2: 720p@(1-25/30 fps)
PTZ								
Pan/Tilt Range		Panorama: T Tilt: -30° to +		tail: Pan: 0°–36	60° endless;		Bit Rate Control	CBR/VBR
Manual Contr	ol Speed	Detail: Pan: 0.1°/s-240°/s; Tilt: 0.1°/s-100°/s					Dit Nate Control	Panorama:
Preset Speed		Detail: Pan: 240°/s; Tilt: 100°/s					Video Bit Rate	H264: 8 Kbps–16384 Kbps H265: 3 Kbps–13568 Kbps Detail: H264: 8 Kbps–16384 Kbps H265: 3 Kbps–13568 Kbps
Preset		300						
Tour		8 (up to 32 presets per tour)						

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Day/Night	Panorama: Color; B/W Detail: Auto (ICR)
BLC	Yes
WDR	Panorama: DWDR; Detail: 120 dB
HLC	Yes
White Balance	Panorama and Detail: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Panorama: Auto; manual Detail: Auto; manual
Noise Reduction	Panorama: 2D NR; 3D NR Detail: 2D NR; 3D NR
Motion Detection	Yes
Region of Interest (RoI)	Yes
Image Stabilization	Detail: EIS
Defog	Panorama: Electronic; Detail: Electronic
Digital Zoom	16×
Image Rotation	180°
Privacy Masking	Yes
S/N Ratio	Panorama: ≥55 dB; Detail: ≥55 dB
Audio	
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723
Network	
Network Port	RJ-45 (10/100 Base-T)
Network Protocol	FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RTCP;PPPoE;NTP;R TP;802.1x;HTTPS;SNMP;TCP/IP;DDNS;UPnP;NFS;ICMP, UDP;IGMP;HTTP;SSL;DHCP;SMTP;Qos;RTSP;ARP
Interoperability	ONVIF (Profile S & Profile G & Profile T);GA/ T1400;CGI;GB/T28181;SDK
Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	FTP; Micro SD card (512 GB); NAS
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions
Management Software	C9100; 5 Series NVR; ICC-B8900; SmartPSS Plus; IVSS
Mobile Client	iOS; Android
Certification	
Certifications	CE: EN 62368-1
Port	
RS-485	1 (baud rate: 1200 bps–9600 bps)
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital input

	Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection
	Alarm I/O	7/2
	Audio I/O	1/1
	Power	
	Power Supply	36 VDC,2.25 A±25% PoE++ (802.3bt)
	Power Consumption	Basic: 32 W Max: 58 W (panoramic camera illuminator, detail camera IR illuminator, light warning, speaker, heated glass, intelligence and PTZ)
	Environment	
	Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
	Operating Humidity	≤ 95%
	Protection	IP67; TVS 8000 V lightning proof; surge protection; voltage transient protection
	Structure	
	Product Dimensions	318.2 mm × 262.0 mm × 415.0 mm (12.53" × 10.31" × 16.34") (L × W × H)
	Net Weight	8.8 kg (19.40 ft)
	Gross Weight	11.12 kg (24.52 ft)

Ordering Information						
Туре	Model	Description				
4MP WizMind	DH-SDT8C442-4P-GA- APV-0280	4MP 42x Starlight Dual Light Network Panoramic PTZ Camera				
PTZ Camera	SDT8C442-4P-GA-APV-0280	4MP 42x Starlight Dual Light Network Panoramic PTZ Camera				
	PFB307W	Wall Mount Bracket				
	DC 36 V/2.23 A	Power Adapter				
	PFA114	Mount Adapter				
Accessories (Optional)	PFB301C	Ceiling Mount Bracket				
	PFB710C	Ceiling Mount Bracket				
	PFA5500	Pole Mount Bracket				
	PFA151	Corner Mount Bracket				

# **Accessories**

# Included:



PFB307W Wall Mount Bracket



DC 36 V/2.23 A Power Adapter



PFA114 Mount Adapter

# Optional:



PFB301C Ceiling Mount Bracket



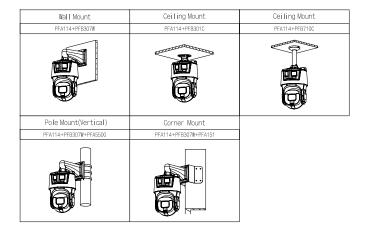
PFB710C Ceiling Mount Bracket



PFA5500 Pole Mount Bracket



PFA151 Corner Mount Bracket



# Dimensions (mm[inch])

