

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

4MP 42x Starlight Dual Light Network Panoramic PTZ Camera



Wiz Mind

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 AI 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.
- \cdot 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.

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Technical Specification

Camera						
Image Sensor		Panorama: 1/1.8" CMOS; Detail: 1/1.8" CMOS				
Pixel		Panorama: 4 MP; Detail: 4 MP				
Max. Resolution		Panorama: 3840 (H) × 1080 (V); Detail: 2560 (H) × 1440 (V)				
ROM		Detail: 4 GB; Panorama: 4 GB				
RAM		Detail: 1 GB; Panorama: 1 GB				
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) Detail: 0.001 lux@F1.6 (Color, 30 IRE); 0.0001 lux@F1.6 (B/W, 30 IRE); 0 lux (IR light on)				
Illumination Distance		Panorama: 30 m (white light); Detail: 300 m (IR)				
Illuminator On/Off Control		Zoom Prio; Manual; Smart IR; Off				
Illuminator Number		Panorama: 4 (white light); Detail: 6 (IR); 2 (white light)				
Wiper		Wiper				
Lens						
Focal Length		Panorama: 2.8 mm; Detail: 5.5 mm–231 mm				
Max. Aperture		Panorama: F1.0; Detail: F1.6-F5.0				
Field of View		Panorama: H: 200°; V: 55°; Detail: H: 61.8°–2.2°; V: 36.3°–1.3°; D: 69.2°–2.4				
Optical Zoom		Detail: 42 ×				
Focus Control		Auto; semi-auto; manual				
Close Focus Dis	stance	Panorama: 4 m (13.12 ft); Detail: 1 m-8 m (3.28 ft- 26.25 ft)				
Iris Control		Detail: Auto; manual				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	Panorama	45 m (147.64 ft)	18 m (59.06 ft)	9 m (29.53 ft)	4.5 m (14.76 ft)	
	Detail	4620 m (15157.48 ft)	1824.9 m (5987.20 ft)	924 m (3031.50 ft)	462 m (1515.75 ft)	
PTZ						
Pan/Tilt Range		Panorama: Tilt: 5°–17°; Detail: Pan: 0°–360° endless; Tilt: -30° to +90°				
Manual Control Speed		Detail: Pan: 0.1°/s–240°/s; Tilt: 0.1°/s–100°/s				
Preset Speed		Detail: Pan: 2	Detail: Pan: 240°/s; Tilt: 100°/s			
Preset		300				

8 (up to 32 presets per tour)

5 5

Yes

Tour Pattern

Scan

Power-off Memory

Idle Motion	Pattern; Preset; Scan; Tour		
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)		
Intelligence			
Video Metadata	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 extracts attributes from human faces and bodies, detecting up to 6 attributes for faces, and 8 for bodies.		
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification; linkage tracking		
Face Detection	Supports face detection, optimization, capturing pictures, uploading high-quality face snapshots and enhancing face images. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group of snapshots.		
Active Deterrence			
Light Warning	White light warning; Flash duration: 5 s–30 s; Flash frequency: high, medium, low		
Sound Warning	Offers 22 sound alarms and supports importing custom sound alarms.		
Video			
Video Compression	H.264H; H.264B; Smart H.265+; H.265; MJPEG (Sub Stream); Smart H.264+; H.264M		
Streaming Capability	3 streams		
Resolution	Panorama: 4M (3840 × 1080); 1080p (1920 × 1080); 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)		
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)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	Panorama: H264: 8 Kbps–16384 Kbps H265: 3 Kbps–13568 Kbps Detail: H264: 8 Kbps–16384 Kbps H265: 3 Kbps–13568 Kbps		
Day/Night	Panorama: Color; B/W Detail: Auto (ICR)		
BLC	Yes		
WDR	Panorama: DWDR; Detail: 120 dB		

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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 (Rol)	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		
Accessories (Optional)	PFB307W	Wall Mount Bracket		
	DC 36 V/2.23 A	Power Adapter		
	PFA114	Mount Adapter		
	PFB301C	Ceiling Mount Bracket		
	PFB710C	Ceiling Mount Bracket		
	PFA5500	Pole Mount Bracket		
	PFA151	Corner Mount Bracket		

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Accessories

Included:



PFB307W Wall Mount Bracket



Power Adapter

Mount Adapter

Optional:







PFA114

PFB301C Ceiling Mount Bracket

PFB710C Ceiling Mount Bracket

PFA5500 Pole Mount Bracket



Dimensions (mm[inch])



PFA151 Corner Mount Bracket

Wall Mount	Ceiling Mount	Ceiling Mount
PFA114+PFB307W	PFA114+PFB301C	PFA114+PFB710C
Pole Mount(Vertical)	Corner Mount	
PFA114+PFB307W+PFA5500	PFA114+PFB307W+PFA151	

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