

DH-SDT8C842-8P-FA-APV-0280

8MP 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 × 4 MP 1/1.8" CMOS image sensor; Detail: 8MP 1/1.8" CMOS image sensor.
- 42 x optical zoom.
- Max. 25/30fps@4K.
- IR distance up to 300 m.
- Auto tracking.
- Perimeter protection.
- Face detection.
- Wiper.
- IP67.
- Sound and light alarm.
- 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	1	Pattern	5	
Camera		Scan	5	
Image Sensor	Panorama: 1/1.8" CMOS Detail: 1/1.8" CMOS	Power-off Memory	Yes	
Pixel	Panorama: 8 MP Detail: 8 MP	Idle Motion	Pattern; Preset; Scan; Tour	
Max. Resolution	Panorama: 5376 (H) × 1520 (V) Detail: 3840 (H) × 2160 (V)	PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)	
ROM	Detail: 8 GB; Panorama: 8 GB	Intelligence		
RAM	Detail: 4 GB; Panorama: 8 GB	Video Metadata	Motor vehicle, non-motor vehicle, face, and human body detection; tracking; optimization; capturing pictures; uploading high-quality face snapshots; motor vehicle attributes; non-motor vehicle attributes; human body attributes; face attributes	
Electronic Shutter Speed	Panorama: 1s–1/30000s Detail: 1s–1/30000s			
Scanning System	Progressive		Tripwire; intrusion; climbing fences; loitering detection;	
Min. Illumination	Panorama: Color: 0.001 lux@F1.0 B/W: 0.0001 lux@F1.0 O lux (IR light on) Detail: Color: 0.005 lux@F1.4 B/W: 0.0005 lux@F1.4 O lux (IR light on)	IVS (Perimeter Protection)	abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking Supports face detection, face bounding box, optimization, capturing snapshots, uploading high- quality face snapshots, enhancing face images and face exposure. Attribute extraction is also supported, where 6 attributes and 8 expressions can be detected.	
Illumination Distance	Panorama: 30 m (white light) Detail: 300 m (IR)	Face Recognition Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. Supports up to 5 face databases; registers person one by one or in batches; sets face similarity; compares faces with 10,000 faces.		
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off			
Illuminator Number	Panorama: 4 (white light) Detail: 6 (IR), 2 (white light)	Auto Tracking	Yes	
Wiper	Wiper	Active Deterrence	163	
Lens		Active Deterrence	White light warning	
Focal Length	Panorama: 2.8 mm Detail: 5.5 mm–231 mm	Light Warning	Flash duration: 5 s–30 s Flash frequency: high, medium, low	
Max. Aperture	Panorama: F1.0 Detail: F1.4-F4.5	Sound Warning	Offers 22 sound alarms and supports importing custom sound alarms.	
Field of View	Panorama: H: 200°; V: 50° Detail: H: 61.8°–2.2°; V: 36.3°–1.3°; D: 69.2°–2.4	Video		
Optical Zoom	Detail: 42 ×	Video Compression	H.264H; H.264B; Smart H.265+; H.265; MJPEG (Sub Stream); Smart H.264+; H.264M	
Focus Control	Auto; semi-auto; manual	Streaming Capability	3 streams	
Close Focus Distance	0.2 m (0.66 ft)		Panorama: 8M (5376 × 1520); 2688 × 752; 1344 × 368; 1080p	
Iris Control DORI Distance	Detail: Auto; manual Recognize Identify Detect Observe Recognize Identify 4620 m 1824.9 m 924 m 462 m (15157.48 ft) (5987.20 ft) (3031.50 ft) (1515.75 ft)	Resolution	(1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Detail: 8M (3840 × 2160); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640×	
PTZ			480); CIF (352 × 288/352 × 240)	
Pan/Tilt Range	Panorama: Tilt: 5°–17° Detail: Pan: 0°–360° endless Tilt: -30° to +90°	Video Frame Rate Panorama: Main stream: (5376 × 1520) @(1–25/30 fps) Sub stream 1: (1344 × 368)/D1/VGA/CIF @(1–25/30 fps) Sub stream 2: (2688 × 752)/1080p/1.3M/720p @ (1–25/30 fps) Detail: Main stream: 8M (3840 × 2160)/4M(2560 × 1440)/3M(2304 × 1296)/1080 P/1.3M/720p @ (1–25/30 fps) Sub stream 1: D1/VGA/CIF @(1-25/30 fps)		
Manual Control Speed	Detail: Pan: 0.1°/s–240°/s Tilt: 0.1°/s–100°/s			
Preset Speed	Detail: Pan: 240°/s Tilt: 100°/s			
Preset	300		Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)	
Tour	8 (up to 32 presets per tour)	Bit Rate Control	CBR; VBR	

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	Panorama: H264: 8 Kbps-16384 Kbps	Port
Video Bit Rate	H265: 3 Kbps–13568 Kbps Detail:	RS-485
	H264: 8 Kbps–16384 Kbps H265: 3 Kbps–13568 Kbps	Audio Input
Day/Night	Panorama: Color; B/W Detail: Auto (ICR)	Audio Output
BLC	Yes	Alarm Input
WDR	Panorama: DWDR	Alarm Output
	Detail: 120 dB	Alarm Linkage
HLC	Yes	
White Balance	Panorama and Detail: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	Alarm Event
Gain Control	Panorama: Auto; manual Detail: Auto; manual	Alarm I/O
Noise Reduction	Panorama: 2D NR; 3D NR Detail: 2D NR; 3D NR	Audio I/O
Motion Detection	Yes	Power
Region of Interest (RoI)	Yes	Power Supply
Image Stabilization	Detail: EIS	
Defog	Panorama: Electronic Detail: Optical	Power Consumptio
Digital Zoom	16x	Environment
Image Rotation	180°	Operating Tempera
Privacy Masking	Yes	Operating Humidity
S/N Ratio	Panorama: ≥ 55 dB Detail: ≥ 55 dB	Protection
Audio		Structure
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1;	Product Dimension
	G729; G723	Net Weight
Network		Gross Weight
Network Port	RJ-45 (100/1000 Base-T)	
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPP0E; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP	
Interoperability	CGI; GA/T 1400; GB/T28181; SDK; ONVIF (Profile S&G&T)	
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: EN55032 EN55035 EN61000-3-2 EN61000-3- 3;EN50130-4 FCC: FCC part15B	

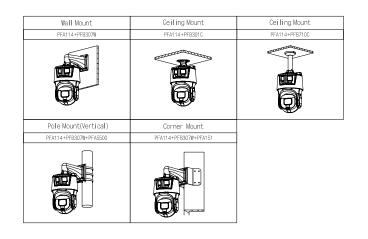
Audio Output	1 channel (LINE OUT, bare wire)			
Alarm Input	7 (on-off value input: 0–5 VDC)			
Alarm Output	2			
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital input			
Alarm Event	Motion; tampering detection; audio detection; network disconnection detection; IP conflict 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%			
Operating Humidity Protection	≤ 95% IP67			
Protection				
Protection Structure	IP67 318.2 mm × 262.0 mm × 415.0 mm (12.53" × 10.31" ×			
Protection Structure Product Dimensions	IP67 318.2 mm × 262.0 mm × 415.0 mm (12.53" × 10.31" × 16.34") (L × W × H)			

1 (baud rate: 1200 bps–9600 bps) 1 channel (LINE IN, bare wire)

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Ordering Information

Туре	Model	Description	
8MP WizMind PTZ Camera	DH-SDT8C842-8P-FA- APV-0280	8MP 42x Starlight Dual Light Network Panoramic PTZ Camera	
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Accessories	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	



Dimensions (mm[inch])

Accessories

Included:



PFB307W Wall Mount Bracket



DC 36 V/2.23 A Power Adapter



PFA114 Mount Adapter



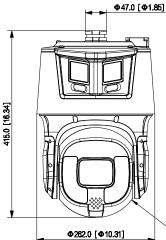
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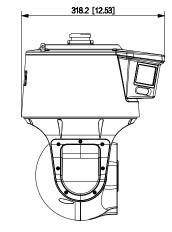
PFB301C

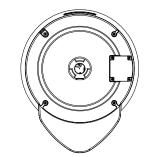
Ceiling Mount Bracket



PFA5500 Pole Mount Bracket







-SR100.0 [SR3.94]



PFA151 Corner Mount Bracket

