

# 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.

## Wiz Mind | DH-SDT8C842-8P-FA-APV-0280

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

# Wiz Mind | DH-SDT8C842-8P-FA-APV-0280

Storage

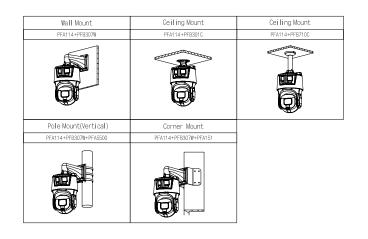
Video Frame Rate	Panorama: Main stream: (5376 × 1520) @(1–25/30 fps) Sub stream 1: (1344 × 368)/D1/VGA/CIF @(1–25/30 fps) Sub stream 2: (2688 × 752)/1080p/1.3M/720p @ (1–25/30 fps) Detail: Main stream: 8M (3840 × 2160)/4M(2560 × 1440)/3M(2304 × 1296)/1080 P/1.3M/720p @ (1–25/30 fps) Sub stream 1: D1/VGA/CIF @(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)	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	
		Contifications	CE: EN55032 EN55035 EN61000-3-2 EN61000-3-
Bit Rate Control	CBR; VBR	Certifications	3;EN50130-4 FCC: FCC part15B
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	Port	
		RS-485	1 (baud rate: 1200 bps-9600 bps)
		Audio Input	1 channel (LINE IN, bare wire)
Day/Night	Panorama: Color; B/W Detail: Auto (ICR)	Audio Output	1 channel (LINE OUT, bare wire)
BLC	Yes	Alarm Input	7 (on-off value input: 0–5 VDC)
WDR	Panorama: DWDR Detail: 120 dB	Alarm Output	2
HLC	Yes	Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital input
White Balance	Panorama and Detail: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	Alarm Event	Motion; tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection
Gain Control	Panorama: Auto; manual Detail: Auto; manual	Alarm I/O	7/2
Noise Reduction	Panorama: 2D NR; 3D NR Detail: 2D NR; 3D NR	Audio I/O	1/1
Motion Detection	Yes	Power	
Region of Interest (RoI)	Yes	Power Supply	36 VDC, 2.25 A ± 25% PoE++(802.3bt)
Image Stabilization	Detail: EIS		Basic: 32 W
Defog	Panorama: Electronic Detail: Optical	Power Consumption	Max: 58 W (panoramic camera illuminator, detail camera IR illuminator, light warning, speaker, heated glass, intelligence and PTZ)
Digital Zoom	16x	Environment	
Image Rotation	180°	Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
S/N Ratio	Panorama: ≥ 55 dB Detail: ≥ 55 dB	Operating Humidity	≤ 95%
Audio		Protection	IP67
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723	Structure	
Network		Product Dimensions	318.2 mm × 262.0 mm × 415.0 mm (12.53" × 10.31" × 16.34") (L × W × H)
Network Port	RJ-45 (100/1000 Base-T)	Net Weight	8.8 kg (19.40 ft)
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP	Gross Weight	11.12 kg (24.52 ft)
Interoperability	CGI; GA/T 1400; GB/T28181; SDK; ONVIF (Profile S&G&T)		
Streaming Method	Unicast; Multicast		
User/Host	20 (total bandwidth: 64 M)		

FTP; Micro SD card (512 GB); NAS

# Wiz Mind | DH-SDT8C842-8P-FA-APV-0280

### **Ordering Information**

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



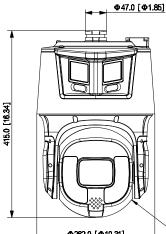
PFA114 Mount Adapter

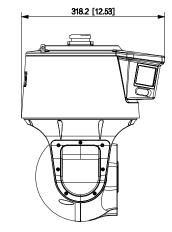






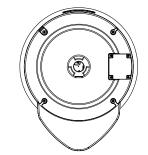
PFA5500





-SR100.0 [SR3.94]

Φ262.0 [Φ10.31]



PFB301C Ceiling Mount Bracket



Pole Mount Bracket



PFA151 Corner Mount Bracket

Rev 002.000

