



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

8MP 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 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 × 5 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.

Technical Specification			Preset Speed	Detail: Pan: 240°/s			
Camera					Tilt: 100°/s		
Image Sensor	Panorama: 1/1.8" CMOS Detail: 1/1.8" CMOS				Preset	300	
Pixel	Panorama: 10 MP				Tour	8 (up to 32 presets per tour)	
	Detail: 8 MP Panorama: 5120 (H) × 1920 (V)				Pattern	5	
Max. Resolution	Panorama: 5120 (H) × 1920 (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: 1 Detail: 1s–1/				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: 0.001 lux@F1.4 B/W: 0.0001 lux@F1.4 0 lux (IR light on) Panorama: 30 m (IR light) Detail: 300 m (IR)				Video Metadata	Motor vehicle, non-motor vehicle, face, and human body detection; tracking; optimization; capturing pictures; uploading high-quality face snapshots; mo vehicle attributes; non-motor vehicle attributes; human body attributes; face attributes	
Illumination Distance					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 Panorama: 4 (IR light) Detail: 6 (IR), 2 (white light) Wiper				Face Recognition	Supports face detection, face bounding box, optimization, capturing snapshots, uploading high-quality face snapshots, enhancing face images and face exposure. Attribute extraction is also supporte where 6 attributes and 8 expressions can be detect. Face cutout is also offered, where you can cutout or face at a time and customize the size to be a one-inc	
Illuminator Number							
Wiper							
Lens				photo. Supports up to 5 face databases; registers person o			
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	l: 200°; V: 70°			Active Deterrence		
Optical Zoom	Detail: H: 61.8°–2.2°; V: 36.3°–1.3°; D: 69.2°–2.4 Detail: 42 ×				Light Warning	White light warning Flash duration: 5 s-30 s Flash frequency: high, medium, low	
Focus Control	Auto; semi-a	uto; manual			Sound Warning	Offers 22 sound alarms and supports importing	
Close Focus Distance	0.2 m (0.66 f	t)				custom sound alarms.	
Iris Control	Detail: Auto;	manual			Video	H.264H; H.264B; Smart H.265+; H.265; MJPEG (Sub	
	Detect	Observe	Recognize	Identify	Video Compression	Stream); Smart H.264+; H.264M	
	4620 m (15157.48 ft)	1824.9 m (5987.20 ft)	924 m (3031.50 ft)	462 m (1515.75 ft)	Streaming Capability	3 streams	
DORI Distance	(15157.48 ft) (5987.20 ft) (3031.50 ft) (1515.75 ft) *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: 10M (5120 × 1920); 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); 720	
PTZ						(1280 × 720); D1 (704 × 576/704 × 480); VGA (640× 480); CIF (352 × 288/352 × 240)	
Pan/Tilt Range	Panorama: T Detail: Pan: 0°–360° Tilt: -30° to +	° endless				400), UIT (334 ^ 200/334 × 240)	
Manual Control Speed	Detail: Pan: 0.1°/s–240°/s Tilt: 0.1°/s–100°/s						

	Panorama: Main stream: (5120 × 1920) @(1–25/30 fps) Sub stream 1: (2560 × 1440)/D1/VGA/CIF @(1–25/30 fps) Sub stream 2: (2688 × 752)/1080p/1.3M/720p @	Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions	
Video Frame Rate	(1–25/30 fps) Detail:	Management Software	C9100; 5 Series NVR; ICC-B8900; SmartPSS Plus; IVSS	
	Main stream: 8M (3840 × 2160)/4M(2560 × 1440)/3M(2304 × 1296)/1080 P/1.3M/720p @	Mobile Client	IOS; Android	
	(1–25/30 fps) Sub stream 1: (2560 × 1440)/D1/VGA/CIF @(1-25/30 fps) Sub stream 2: (2688	Certification		
Bit Rate Control	×752)1080p/1.3M/720p@(1-25/30 fps) CBR; VBR	Certifications	CE: EN55032 EN55035 EN61000-3-2 EN61000-3- 3;EN50130-4 FCC: FCC part15B	
	Panorama:	Port Port		
Video Bit Rate	H264: 8 Kbps–16384 Kbps H265: 3 Kbps–13568 Kbps Detail:	RS-485	1 (baud rate: 1200 bps–9600 bps)	
	H264: 8 Kbps–16384 Kbps H265: 3 Kbps–13568 Kbps			
Day/Night	Panorama: Color; B/W	Audio Input	1 channel (LINE IN, bare wire)	
	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: WDR Detail: 130 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	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	0725, 0725	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)			
Storage	FTP; Micro SD card (512 GB); NAS			



Ordering Information					
Туре	Model	Description			
8MP WizMind PT7	DH-SDT8C842-8P- FA-APV-0280-C	8MP 42x Starlight Dual Light Network Panoramic PTZ Camera			
Camera	SDT8C842-8P-FA- APV-0280-C	8MP 42x Starlight Dual Light Network Panoramic PTZ Camera			
	PFB307W	Wall Mount Bracket			
	DC 36 V/2.23 A	Power Adapter			
	PFA114	Mount Adapter			
Accessories	PFB301C	Ceiling Mount Bracket			
	PFB710C	Ceiling Mount Bracket			
	PFA5500	Pole Mount Bracket			
	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		

Dimensions (mm[inch])

Accessories

Included:



PFB307W Wall Mount Bracket



DC 36 V/2.23 A Power Adapter



PFA114 Mount Adapter

Optional:



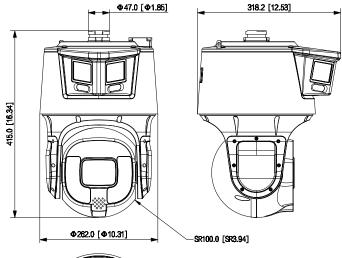
PFB301C Ceiling Mount Bracket

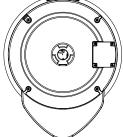


PFB710C Ceiling Mount Bracket



PFA5500 Pole Mount Bracket







PFA151 Corner Mount Bracket