

DH-PSDW82442M-A270-D440

6×4MP Multi-Sensor Panoramic + PTZ WizMind Network Camera



Wiz Mind

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, 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.

Series Overview

The Panoramic Network Camera + PTZ Camera can splice up to a 270° horizontal view to give you a wider view. Working with high-speed PTZ, the camera can display the details. With advanced video analysis algorithm, the camera supports linkage between panorama and details, and situation analysis.

Functions

Panoramic Splicing

With advanced splicing algorithm, Dahua Panoramic Splicing technology deletes overlapped area and splices multiple images to be a complete panorama. The field of view of the spliced image can be up to 270°, which largely improves surveillance efficiency and user experience. Generally, after splicing, the field of view of six-sensor camera can be 270°.

Smart Tracking

With advanced algorithm, Dahua network camera can detect targets, track targets with speed dome, and view details.

Crowd Density

With deep learning algorithm, Dahua Crowd Density technology can detect the crowd density on the image, and display it on heat map; it can detect people quantity and density in selected area and set threshold. When the number or density is larger or smaller than the threshold, it triggers linkage.

- Panoramic network camera: Six 1/1.8"4Megapixel progressive CMOS
 PTZ camera: One 1/1.8"4Megapixel progressive CMOS
- · Support 270-degree panoramic view
- · Starlight+ technology
- · Support Smart H265+/H264+ encoding
- \cdot Day/Night (ICR); 3D NR; AWB; AGC; BLC
- · IR distance up to 400 m
- · Smart tracking
- · Tripwire
- · Intrusion
- · Crowd map
- · Vehicle density













Vehicle Density

With deep learning algorithm, Dahua Vehicle Density technology analyses the vehicle situation in the image, such as vehicle number in selected area. You can set threshold, and when the number is larger or smaller than the threshold, it triggers linkage.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire and intrusion) are largely reduced.

AR Panorama

Dahua AR panorama technology generates wide-field of view through panoramic merging and splicing. The software overlaps the cameras as tags in the image. Click the tag to display the corresponding camera video, which makes monitoring visual and convenient, and improves command efficiency.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Technical Specification							Work together with Smart NVR to perform refine		
Camera							Intelligent Search	intelligent search, event extraction and merging to event videos.	
Image Senso	r	1/1.8"4Megapixel progressive CMOS					Video		
Max. Resolution		8192 (H) × 2700 (V)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	
ROM		Panoramic network camera: 4 GB PTZ camera: 32 GB					Smart Codec	Smart H.264+	
RAM		Panoramic network camera: 8 GB PTZ camera: 4 GB						Smart H.265+	
Scanning System		Progressive					Video Frame Rate	Panoramic network camera: Main stream: 8192 × 2700@1–25/30 fps Sub stream 1: 2048 × 680@1–25/30 fps Sub stream 2: 3840 × 1248@1–25/30 fps PTZ camera: Main stream: 2560 × 1440@1–25/30 fps Sub stream 1: 704 × 480@1–25/30 fps Sub stream 2: 1920 × 1080@–25/30 fps	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s							
Min. Illumination		Panoramic network camera: 0.001 Lux (Color); 0.0002 Lux (B/W) PTZ camera: 0.001 Lux (Color); 0.0001 Lux (B/W); 0 Lux (IR on)							
S/N Ratio		> 56 dB					Stream Capability	3 streams	
Illumination Distance		PTZ camera: ≥ 400 m (1312 ft) (IR LED)						Panoramic network camera: Main stream: 8192 × 2700; 7680 × 2520; 5760 × 1896;	
Illuminator C	Illuminator On/Off Control		/Zoomprio					4096 × 1360 Sub stream 1: 2048 × 680; 1600 × 532; 1280 × 420	
Illuminator Number		7 (IR LED)					Resolution	Sub stream 2: 3840 × 1248; 2560 × 840 PTZ camera: Main stream: 2560 × 1400; 2048 × 1536; 1920 × 1080; 1280 × 960; 1280 × 720 Sub stream 1: 704 × 576/704 × 480; 352 × 288/352 × 240 Sub stream 2: 1920 × 1080; 1280 × 960; 1280 × 720	
Pan/Tilt/Rotation Range		Pan: 0° to 355° Tilt: -12° to 90° Rotation: 0°–355°							
Lens	Lens						Bit Rate Control	CBR/VBR	
Lens Type		Panoramic network camera: Fixed-focal PTZ camera: Vari-focal						Panoramic network camera:	
Mount Type		Panoramic network camera: M12 PTZ camera: Module Panoramic network camera: 2.8 mm					Video Bit Rate	H.264: 127 kbps- 65536 kbps H.265: 50 kbps- 65536 kbps PTZ camera: H.264: 32 kbps- 17152 kbps H.265: 12 kbps- 10240 kbp	
Focal Length		PTZ camera: 5.5 mm-220 mm					Day/Night	Auto (ICR)/Color/B/W	
Max. Apertu	Max. Aperture		etwork camera F1.35–F4.8	: F1.6			BLC	Yes	
		Panoramic network camera: Horizontal: 270°					HLC	Yes	
Field of View	Field of View						WDR	Panoramic network camera: DWDR	
		Horizontal: 2.27°–61.4° Vertical: 1.3°–35.99°						PTZ camera: 120 dB	
			2°–68.18° etwork camera	· Fived			Scene Self-adaptation (SSA)	Yes	
Iris Type	Iris Type		Auto				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Close Focus Distance		Panoramic network camera: 1.4 m (4.6 ft) PTZ camera: 0.5 m-2 m (1.6 ft-6.6 ft)					Gain Control	Auto/Manual	
	Lens	Detect	Observe	Recognize	Identify		Noise Reduction	3D NR	
DORI	Panoramic network camera	57.9 m (190.0 ft)	23.2 m (76.1 ft) 1149.2 m	11.6 m (38.1 ft) 574.6 m	5.8 m (19.0 ft) 287.3 m		Motion Detection	OFF/ON (4 areas, rectangular)	
Distance							Region of Interest (RoI)	Panoramic network camera: Yes (4 areas) PTZ camera: Yes (4 areas)	
	PTZ camera	2873.1 m (9426.2 ft)	(3770.3 ft)	(1885.2 ft)	(942.6 ft)		Electronic Image Stabilization (EIS)	Panoramic network camera: Not support PTZ camera: Yes	
Professional, intelligent							Smart Illumination	Yes	
IVS (Perimeter Protection)		Tripwire; intrusion					Defog	Panoramic network camera: NA PTZ camera: Optical defog	
Crowd Distribution Map		Crowd map, global crowd density; crowd density in area; people counting in area; smart track for crowd density exception					Flip	Panoramic network camera: NA PTZ camera: 180°	
Vehicle Dens	Vehicle Density		r limit; traffic c	ongestion alarr	n		Privacy Masking	Panoramic network camera: 4 areas PTZ camera: 24 areas	
								1 12 Callicia. 24 alcd5	

Audio		Time Display	Yes	
Audio Compression	PCM;G.711A;G.711Mu;G.726;G.723	Certifications		
Alarm	No SD card; SD card full; SD card error; SD card service life warning; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire;	Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Alarm Event	intrusion; scene changing; audio detection; intensity change; voltage detection; external alarm; safety	Port		
	exception; crowd congestion; vehicle congestion; parking upper limit	Audio Input	2 channels (terminal)	
Audio Sampling	8 KHz; 16 KHz; 32 KHz; 48 KHz; 64 KHz	Audio Output	2 channels (terminal)	
Network		Alarm Input	7 channels in: 5mA 3V–5V DC	
Network	RJ-45 (10/100/1000 Base-T)	Alarm Output	3 channels out: 1,000mA 30V DC/500mA 50V AC	
SDK and API	Yes	Analog Output	1 channel (CVBS outputs, NBC port)	
Protocol	IPv4; IPv6; HTTP; HTTPs; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x;	Optical Module Specification	SFP optical module, single mode, single fiber 20KmTX-1310nm/RX-1550nm	
	SNMP;	Optical Fiber	FC	
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted	Optical Fiber Module Type	Gigabit SFP optical module, single mode, single fiber TX-1550nm/RX-1310nm	
	execution; trusted upgrade	Power		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone;Genetec	Power Supply	36V DC	
User/Host	20 (Total bandwidth: 1000 M)	Operating Voltage	36V DC (±50%)	
Storage	Micro SD card (support max. 256 G); FTP; SFTP; NFS; SMB IE: IE9; IE10; IE11 Chrome: 42 and earlier Firefox: 52 and earlier	Power Consumption	Basic power consumption: 33.7W (36V DC) Max. power consumption (Basic power consumption + WDR + intelligent functions enabled + IR on + PTZ operation): Panoramic network camera: 71.9W (36V DC);	
Management Software	EVS; NVR5X-I; IVSS; DSS Pro; M70; Milestone; Genetec		PTZ camera: 5.4W	
PTZ Dome		Environmental		
Pan Range	Pan: 0° to 360° endless	Operating Conditions	−40°C to +70°C (−40°F to +158°F)/Less than 95% RH	
rairNailge	Tilt: –12° to 90°, auto flip 180	Storage Temperature	-40°C to +70°C (-40°F to +158°F)	
Manual Control Speed	Pan: 240°/s Tilt: 100°/s	Protection Grade	IP66; IK10 (optional)	
Remote Lens Reset	Yes	Structure		
Remote PTZ Reset	Yes	Casing	Metal + plastic	
Preset	300	Dimensions	Φ383 mm × 389.8 mm(Φ15.1" × 15.3")	
Tour	8 (up to 32 presets per tour)	Box Dimensions	500 mm × 500 mm × 658 mm (19.7" × 19.7" × 25.9") (L × W × H)	
Pattern	5	Net Weight	14.7 kg (32.4 lb)	
Scan	5	Gross Weight	19.8 kg (43.7 lb)	
Power-off Memory	Yes	Installation	Wall mount; ceiling mount; pole mount	
Idle Motion	Preset/Pattern/Tour/Scan	Power Adapter	Standard	
Time Task	Yes	Lens	Standard	
Three-dimensional Positioning	Yes	Power Output	12V DC power output, max. current 165mA	
PTZ Limit	Yes	Others		
Position Display	Yes	Position	GPS/BDS	
Information Display	Yes	Calibration	Manual/Auto	

Ordering Information							
Туре	Part Number	Description					
24MP Camera	DH-PSDW82442M- A270-D440	6×4MP Multi-Sensor Panoramic + PTZ WizMind Network Camera, PAL/NTSC					
	PFB710C-SG	Ceiling Mounted					
Accessories	PFB710W-SG	Wall Mounted					
(Optional)	PFA153-SG	Pole Mounted					
	PBW059-00	Mount Adapter					

Accessories

Included:



PBW059-00 Mount Adapter

Optional:



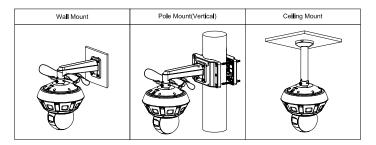




PFB710C-SG Hang-mounted bracket



PFB710W-SG Wall-mounted bracket



Dimensions (mm[inch])

