



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
- · 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.



Technical Specification				Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event			
Camera							genresearen	videos.
Image Sensor		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); 0.0001 Lux (B/W) PTZ camera: 0.001 Lux (Color); 0.0001 Lux (B/W); 0 Lux (IR on)						
S/N Ratio	S/N Ratio						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 (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: -20° to 70° Rotation: 0°-355°						
Lens				Bit Rate Control	CBR/VBR			
Lens Type		Panoramic network camera: Fixed-focal PTZ camera: Vari-focal					Video Bit Rate	Panoramic network camera: H.264: 127 kbps – 65536 kbps H.265: 50 kbps – 65536 kbps PTZ camera: H.264: 32 kbps – 17152 kbps
Mount Type		Panoramic network camera: M12 PTZ camera: Module						
Focal Length		Panoramic network camera: 2.8 mm PTZ camera: 5.6 mm—223 mm					- 6	H.265: 12 kbps- 10240 kbp
Max. Apertu	Max. Aperture		Panoramic network camera: F1.6 PTZ camera: F1.35–F4.8				Day/Night	Auto (ICR)/Color/B/W
		Panoramic network camera:					BLC	Yes
Field of Minn		Horizontal: 270° Vertical: 111° PTZ camera: Horizontal: 2.27°–61.4° Vertical: 1.3°–35.99°					HLC	Yes Division to the desired DWDD
Field of View	l						WDR	Panoramic network camera: DWDR PTZ camera: 120 dB
		Diagonal: 2.62°–68.18°					Scene Self-adaptation	Yes
Iris Type		Panoramic network camera: Fixed PTZ camera: 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: 500 mm–2000 mm (19.7"–78.7") (T to W)					Gain Control	Auto/Manual
	Lens	Detect	Observe	Recognize	Identify		Noise Reduction	3D NR
	Panoramic	570	22.2				Motion Detection	OFF/ON (4 areas, rectangular)
DORI Distance	network camera	57.9 m (190.0 ft)	23.2 m (76.1 ft)	11.6 m (38.1 ft)	5.8 m (19.0 ft)		Region of Interest (RoI)	Panoramic network camera: Yes (4 areas) PTZ camera: Yes (4 areas)
	PTZ camera	2873.1 m (9426.2 ft)	1149.2 m (3770.3 ft)	574.6 m (1885.2 ft)	287.3 m (942.6 ft)		Electronic Image Stabilization (EIS)	Panoramic network camera: Not support PTZ camera: Yes
Professional, intelligent				Smart Illumination	Yes			
IVS (Perimet	IVS (Perimeter Protection)		Tripwire; intrusion				Defog	Panoramic network camera: Not support 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: Not support PTZ camera: 180°
Vehicle Density		Parking upper limit; traffic congestion alarm					Privacy Masking	Panoramic network camera: 4 areas PTZ camera: 8 areas

Audio		Certifications			
Audio Compression	PCM;G.711A;G.711Mu;G.726;AA;G.723		CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive		
Alarm		Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07		
	No SD card; SD card full; SD card error; SD card service life warning; network disconnection; IP conflict; illegal	Port			
Alarm Event	access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; intensity change; voltage detection; external alarm; safety	RS-485	1 (baud rate range: 1200 bps–115200 bps); reserved		
	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)	Analog Output	1 channel (CVBS outputs, NBC port)		
SDK and API	Yes	Optical Module Specification	SFP optical module, single mode, single fiber 20KmTX-1310nm/RX-1550nm		
	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP;	Optical Fiber	FC		
Protocol	NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP	Optical Fiber Module Type	Gigabit SFP optical module, single mode, single fiber TX-1550nm/RX-1310nm		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone;Genetec	Alarm Output	3 channels out: 1,000mA 30V DC/500mA 50V AC		
User/Host	20 (Total bandwidth: 1000 M)	SDI	Yes		
Storage	Micro SD card (support max. 256 G); FTP; SFTP; NFS; SMB	Power			
Browser	IE: IE9; IE10; IE11 Chrome: 42 and earlier Firefox: 52 and earlier	Power Supply	36V DC		
Management Software	EVS;NVR5X-I;IVSS;DSS Pro;M70;Milestone;Genetec	Operating Voltage	36V DC (±50%)		
PTZ Dome		Power Consumption	Basic power consumption: 33.7W (36V DC) Max. power consumption (Basic power consumption		
Pan Range	Pan: 0° to 360° endless Tilt: –12° to 90°, auto flip 180		+ WDR + intelligent functions enabled + IR on + PTZ operation): Panoramic network camera: 71.9W (36V DC); PTZ camera: 5.4W		
Manual Control Speed	Pan: 240°/s Tilt: 100°/s	Environmental	Environmental		
Remote Lens Reset	Yes	Operating Conditions	-40°C to +70°C (-40°F to +158°F)		
Remote PTZ Reset	Yes	Storage Temperature	$5^{\circ}\text{C}-40^{\circ}\text{C}$ (41°F–104°F)(The temperature difference of each day is within 15°C/59°F)		
Preset	300	Protection Grade	IP66; IK10 (optional)		
Tour	8 (up to 32 presets per tour0)	Structure			
Pattern	5	Casing	Metal + Plastic		
Scan	5	Dimensions	Ф383 mm×389.8 (Ф15.1" × 15.3")		
Power-off Memory	Yes	Box Dimensions	500 mm × 500 mm × 658 mm (19.7" × 19.7" × 25.9") (L × W × H)		
Idle Motion	Preset/Pattern/Tour/Scan	Net Weight	14.7 kg (32.4 lb)		
Time Task	Yes	Gross Weight	19.8 kg (43.7 lb)		
Three-dimensional Positioning	Yes	Installation	Wall mount; ceiling mount; pole mount		
PTZ Limit	Yes	Power Adapter	Standard		
Position Display	Yes	Lens	Standard		
Information Display	Yes	Power Output	12V DC power output, max. current 165mA		
Time Display	Yes	Others			
		Position	GPS/BDS		

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 (Optional)	PFB710W-SG	Wall Mounted			
, , ,	PFA153-SG	Polo Mounted			

Accessories

Optional:







PFB710C-SG Ceiling Mounted

PFB710W-SG Wall Mounted

PFA153-SG Polo Mounted

Wall Mount	Pole Mount	Ceiling Mount
PFB710W	DH-PFA153+PFB710W	PFB710C

Dimensions (mm[inch])







