

DH-PSDW83242M-A360-D845L

8×4MP Multi-Sensor Panoramic & PTZ WizMind Network Camera



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 360° 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 360°, which largely improves surveillance efficiency and user experience. Generally, after splicing, the field of view of eight-sensor camera can be 360°.

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: Eight 1/1.8" 4Megapixel progressive CMOS
 PTZ camera: One 1/1.8" 8Megapixel progressive CMOS
- · 360-degree panoramic view
- · Smart H265+/H264+ encoding
- · Day/Night (ICR); 3D NR; AWB; AGC; BLC
- Illumination distance up to 500 m
- 45x optical zoom
- · Optical image stabilization
- 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.

ROI

Dahua Regions Of Interest (ROI) technology allows you to select the monitoring area of interest to improve image effect in the selected area.

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. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, Dahua network camera better meets the demands of cyber security and privacy protection.

Pan/Tilt Range Pan: 0° to 360° endless Tilt: -12° to 90°, auto flip 180		
Image Sensor 1/1.8"4Megapixel progressive CMOS Max. Resolution 2 × 5520 (H) × 2700 (V) Panoramic network camera 1: 16MP Panoramic network camera 2: 16MP PTZ camera: 8MP ROM Panoramic network camera 2: 16MP PTZ camera: 8 GB PTZ camera: 8 GB PTZ camera: 4 GB PTZ camera: 5 Canning Number 5 Canning Number 5 Ves Idle Motion Preset; tour; pattern; scanning Professional, intelligent IVS (Perimeter Protection) Tripwire; intrusion Crowd map, global crowd density; crowd depose counting in area; smart track for crowd camera; camera; counting in area; smart track for crowd camera; camera		
Max. Resolution 2 × 5520 (H) × 2700 (V) Panoramic network camera 1: 16MP Panoramic network camera 2: 16MP PTZ camera: 8MP PTZ camera: 8 GB PTZ camera: 8 GB PTZ camera: 8 GB PTZ camera: 4 GB PTZ camera: 5 Color, 30IRE; 0.0001 Lux@F1.6 (Color, 30IRE); 0.0001 Lux@F1.6 (Color, 30IRE); 0.0001 Lux@F1.6 (Color, 30IRE); 0.0001 Lux@F1.6 (Day, 30IRE); 0.0001 Lux@F1.5 (Day, 30		
Effective Pixels Panoramic network camera 2: 16MP PTZ camera: 8MP Presets 300 ROM Panoramic network camera: 4 GB PTZ camera: 8 GB PTZ camera: 8 GB PTZ camera: 4 GB Scanning Number 5 Scanning Number 5 Power-off Memory Yes Idle Motion Preset; tour; pattern; scanning Professional, intelligent W,30IRE) PTZ camera: 0.001 Lux@F1.5 (Color,30IRE); 0.0001 Lux @F1.5(B/W,30IRE) PTZ camera:		
ROM Panoramic network camera: 4 GB PTZ camera: 8 GB PTZ camera: 8 GB PTZ camera: 4 GB Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s Scanning Mode Progressive Panoramic network camera: 0.001 Lux@F1.6 (Color,30IRE); 0.0001 Lux@F1.6 (B/W,30IRE) PTZ camera: 0.001 Lux@F1.5 (Color,30IRE); 0.0001 Lux@F1.5(B/W,30IRE)		
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Scanning Mode Progressive Panoramic network camera: 0.001 Lux@F1.6 (Color,30IRE); 0.0001 Lux@F1.6 (B/W,30IRE) PTZ camera: 0.001 Lux@F1.5 (Color,30IRE); 0.0001 Lux @F1.5(B/W,30IRE); 0.000		
Minimum Illumination Panoramic network camera: 0.001 Lux@F1.6 (Color,30IRE); 0.0001 Lux@F1.6 (B/W,30IRE) PTZ camera: 0.001 Lux@F1.5 (Color,30IRE); 0.0001 Lux @F1.5(B/W,30IRE); 0 Lux (Illuminator on) Professional, intelligent IVS (Perimeter Protection) Crowd map, global crowd density; cr		
Minimum Illumination (B/W,30IRE) PTZ camera: 0.001 Lux@F1.5 (Color,30IRE); 0.0001 Lux @F1.5(B/ W,30IRE); 0 Lux (Illuminator on) PTZ camera: 1VS (Perimeter Protection) Crowd map, global crowd density; crowd densit		
P1Z camera: 0.001 Lux@F1.5 (Color,30IRE); 0.0001 Lux @F1.5(B/ W,30IRE); 0 Lux (Illuminator on) PTZ camera: PTZ camera: IVS (Perimeter Protection) Crowd map, global crowd density; cro	Professional, intelligent	
Illumination Distance PTZ camera: Crowd Distribution Map PTZ camera: Crowd Distribution Map PTZ camera:		
= 555 m (15 15 12 m) (1555)		
IR On/Off Control Auto; manual; zoomprio Vehicle Density Parking upper limit; traffic congestion alarm		
Work together with Smart NVR to perform re intelligent Search videos. Work together with Smart NVR to perform re intelligent search, event extraction and merganises.		
Pan/Tilt/Rotation Range Pan: 0° to 360° Tilt: -12° to 90° Video		
Lens Video Compression H.265; H.264H; H.264H; H.264B; MJPEG (only	supported b	
Panoramic network camera 1: Fixed-focal Lens Type Panoramic network camera 2: Fixed-focal Smart Codec Smart H.264+ PTZ camera: Vari-focal Smart H.265+		
Panoramic network camera 1: M12 Lens Mount Panoramic network camera 2: M12 Panoramic network camera 2: M12 Main stream: 5520 × 2700@1–25/30 fps Sub stream 1: 1920 × 940@1–25/30 fps Sub stream 2: 3500 × 940@1–25/30 fps	Main stream: 5520 × 2700@1–25/30 fps Sub stream 1: 1920 × 940@1–25/30 fps Sub stream 2: 2560 × 1252@1–25/30 fps Panoramic network camera 2: Main stream: 5520 × 2700@1–25/30 fps Sub stream 1: 1920 × 940@1–25/30 fps	
Panoramic network camera 1: 2.8 mm Pocal Length Panoramic network camera 2: 2.8 mm PTZ camera: 5.5 mm–248 mm Panoramic network camera 2: Main stream: 5520 × 2700@1–25/30 fps Sub stream 1: 1920 × 940@1–25/30 fps		
Panoramic network camera 1: F1.6 Max. Aperture Panoramic network camera 2: F1.6 PTZ camera: F1.5–F5.3 Panoramic network camera 2: F1.6 PTZ camera: F1.5–F5.3 Sub stream 2: 2560 × 1252@1–25/30 fps Sub stream 2: 2560 × 1252@1–25/30 fps Sub stream 2: 1704 × 576@1–25/30 fps Sub stream 2: 1280 × 720@1–25/30 fps		
Horizontal: 180° Vertical: 111° Stream Capability 3 streams		
Panoramic network camera 2: Horizontal: 180° Vertical: 111° PTZ camera: Horizontal: 64.4°-2.02° Vertical: 38.37°-1.14° Diagonal: 69.6°-2.29° Panoramic network camera 1: Panoramic network camera 1: Main stream: 5520 × 2700; 4600 × 2252; 38-280 × 1408 Sub stream 1: 1920 × 940; 1280 × 620; 1024 Sub stream 2: 2560 × 1252; 1366 × 668 Panoramic network camera 2: Main stream: 5520 × 2700; 4600 × 2252; 38-280 × 1252	× 496	
PIZ camera: $0.1 \text{ m} = 5 \text{ m} \cdot 0.33 \text{ T} = 16.40 \text{ T} \cdot 0.000$	Sub stream 1:1920 × 940; 1280 × 620; 1024 × 496 Sub stream 2: 2560 × 1252; 1366 × 668 PTZ camera: Main stream: 3840 × 2160; 2560 × 1440; 1920 × 1080;	
Sub stream 2: 2560 × 1252; 1366 × 668 PTZ camera: Fixed Properties Panoramic network camera: Fixed		
Lens Detect Observe Recognize Identify Sub stream 1: 704 × 576/704 × 480; 352 × 2: Sub stream 2: 1920 × 1080; 1280 × 960; 128		
Panoramic network 57.9 m 23.2 m 11.6 m 5.8 m Bit Rate Control CBR/VBR		
PTZ camera 4420 m 1768 m 884 m 442 m (14501.31 ft) (5800.52 ft) (2900.26 ft) (1450.13 ft)		

	Panoramic network camera 1: H.264: 96 kbps–42797 kbps	Management Software	NVR5X-I; EVS50&70; EVS71; NVD0905; M70; DSS Pro; DSS-T9160; DSS-C9100; DSS-C9160
Video Bit Rate	H.265: 38 kbps–25889 kbps Panoramic network camera 2: H.264: 96 kbps–42797 kbps H.265: 38 kbps–25889 kbps PTZ camera: H.264: 32 kbps–27740 kbps	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 execution; trusted upgrade
Day/Night	H.265: 12 kbps–16572 kbp Auto (ICR)/Color/B/W	Certification	
BLC	Yes		CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive
		Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
HLC	Yes Panoramic network camera 1: DWDR	Port	
WDR	Panoramic network camera 2: DWDR PTZ camera: 120 dB	RS-485	1 (baud rate range: 1200 bps–115200 bps); reserved
Scene Self-adaptation	Yes	Audio Input	2 channels (terminal)
White Balance	Auto; Natural; Street lamp; Outdoor; Manual; Regional Custom	Audio Output	2 channels (terminal)
Gain Control	Auto; Manual	Alarm Input	7 channels in: 5mA 3V–5V DC
Noise Reduction	3D NR	Analog Output	1 channel (CVBS outputs, NBC port)
Motion Detection	OFF/ON (4 areas, rectangular)	Optical Module Specification	SFP optical module, single mode, single fiber 20KmTX-1310nm/RX-1550nm
Region of Interest (RoI)	Panoramic network camera 1: Yes (4 areas) Panoramic network camera 2: Yes (4 areas)	Optical Fiber	FC
Image Stabilization (OIS)	PTZ camera: Yes (4 areas) Panoramic network camera 1: No Panoramic network camera 2: No	Optical Fiber Module Type	Gigabit SFP optical module, single mode, single fiber TX-1550nm/RX-1310nm
image stabilization (Ols)	PTZ camera: Optical Image Stabilization (OIS)	Alarm Output	3 channels out: 1,000mA 30V DC/500mA 50V AC
Defog	Panoramic network camera 1: No Panoramic network camera 2: No PTZ camera: Optical defog	SDI	Yes
Flip	Panoramic network camera 1: No Panoramic network camera 2: No	Power	
	PTZ camera: Yes	Power Supply	36V DC
Privacy Masking	Panoramic network camera 1: 4 areas Panoramic network camera 2: 4 areas PTZ camera: 24 areas (8 for each preset)	Operating Voltage	36V DC (±50%)
Audio Audio Compression	PCM; G.711A; G.711Mu; G.726; G.723; G.722.1; G.729; MPEG2-Layer2	Power Consumption	Basic: 33.7W (36 V DC) Max. (Basic power consumption + WDR + intelligent functions enabled + IR on + PTZ operation): 71.9 W (36 V DC) Heating: Panoramic network camera: 6 W (36V DC); PTZ: 5.4 W
Alarm		Environment	
	No SD card; SD card full; SD card error; SD card service life warning; network disconnection; IP conflict; illegal access;	Operating Conditions	-40°C to +70°C (-40°F to +158°F)
Alarm Event	motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; intensity change; voltage detection; external alarm; safety exception; crowd	Storage Temperature	5°C to 40°C (41°F to 104°F)(The temperature difference of each day is within 15°C/59°F)
	congestion; vehicle congestion; parking upper limit	Protection Grade	IP66; IK10 (optional)
Audio Sampling 8 KHz; 16 KHz; 32 KHz; 48 KHz; 64 KHz		Structure	
Network		Casing	Metal + Plastic
Network	RJ-45 (10/100/1000 Base-T)	Dimensions	Ф383 mm × 389.8 (Ф15.1" × 15.3")
SDK and API	Yes	Box Dimensions	500 mm × 500 mm × 658 mm (19.7" × 19.7" × 25.9") (L
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;	Net Weight	× W × H) 14.7 kg (32.4 lb)
Interoperability	SNMP ONVIF (Profile S/Profile G/Profile T); CGI	Gross Weight	19.8 kg (43.7 lb)
User/Host	20 (Total bandwidth: 1000 M)	Installation	Wall mount; ceiling mount; pole mount
Storage	Micro SD card (support max. 256 G); FTP; SFTP; NFS; SMB	Power Adapter	Standard
	IE: IE9; IE10; IE11	Lens	Standard
Browser	Chrome: 42 and earlier Firefox: 52 and earlier	Power Output	12V DC power output, max. current 165 mA

Ordering Information					
Туре	Model	Description			
32MP Camera	DH-PSDW83242M- A360-D845L	8×4MP Multi-Sensor Panoramic & PTZ WizMind Network Camera			
Accessories	PBW059-00	Mount Adapter			
	PFB710C-SG	Ceiling Mount Bracket			
	PFB710W-SG	Wall Mount Bracket			
	PFA153-SG	Polo Mount Bracket			

Accessories

Included:



PBW059-00 Mount Adapter

Optional:



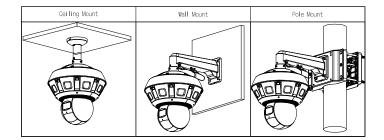
PFB710C-SG Ceiling Mount Bracket



PFB710W-SG Wall Mount Bracket



PFA153-SG Polo Mount Bracket



Dimensions (mm[inch])

