

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.

Technical Specification							PTZ	
Camera							Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –12° to 90°, auto flip 180
Image Senso	Image Sensor		1/1.8"4Megapixel progressive CMOS				Manual Control Speed	Pan: 240°/s
Max. Resolution		2 × 5520 (H) × 2700 (V)					·	Tilt: 100°/s Pan: 240°/s
Effective Pixels		Panoramic network camera 1: 16MP Panoramic network camera 2: 16MP				Preset Speed	Tilt: 100°/s	
		PTZ camera: 8MP Panoramic network camera: 4 GB					Presets	300
ROM		PTZ camera: 8 GB					Tour	8 (up to 32 preset per tour)
RAM		Panoramic network camera: 8 GB PTZ camera: 4 GB					Pattern Number	5
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Scanning Number	5
Scanning Mo	Scanning Mode						Power-off Memory	Yes
		Panoramic network camera:					Idle Motion	Preset; tour; pattern; scanning
Minimum Illi	umination	0.001 Lux@F1.6 (Color,30IRE); 0.0001 Lux@F1.6 (B/W,30IRE) PTZ camera:				Professional, intelligent		
		0.001 Lux@F1.5 (Color,30IRE); 0.0001 Lux @F1.5(B/ W,30IRE); 0 Lux (Illuminator on)					IVS (Perimeter Protection)	Tripwire; intrusion
Illumination Distance		PTZ camera: ≥ 500 m (1640.42 ft) (Laser)					Crowd Distribution Map	Crowd map, global crowd density; crowd density in area; people counting in area; smart track for crowd density exception
IR On/Off Control		Auto; manual; zoomprio					Vehicle Density	Parking upper limit; traffic congestion alarm
IR LED Number		7 (Laser); 2 (IR LED)					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Pan/Tilt/Rota	Pan/Tilt/Rotation Range		Pan: 0° to 360° Tilt: -12° to 90°				Video	
Lens	Lens				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported b the sub stream)		
Lens Type		Panoramic network camera 1: Fixed-focal Panoramic network camera 2: Fixed-focal PTZ camera: Vari-focal					Smart Codec	Smart H.264+ Smart H.265+
Lens Mount		Panoramic network camera 1: M12 Panoramic network camera 2: M12 PTZ camera: Module Panoramic network camera 1: 2.8 mm						Panoramic network camera 1: 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:
Focal Length Max. Aperture		Panoramic network camera 2: 2.8 mm PTZ camera: 5.5 mm–248 mm Panoramic network camera 1: F1.6 Panoramic network camera 2: F1.6					Video Frame Rate	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 PTZ camera:
Max. Aperture		PTZ camera: F1.5–F5.3 Panoramic network camera 1:						Main stream: 3840 × 2160@1–25/30 fps Sub stream 1: 704 × 576@1–25/30 fps Sub stream 2: 1280 × 720@1–25/30 fps
Field of View		Horizontal: 180° Vertical: 111° 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°					Stream Capability	3 streams
								Panoramic network camera 1: Main stream: 5520 × 2700; 4600 × 2252; 3840 × 1880; 2880 × 1408 Sub stream 1: 1920 × 940; 1280 × 620; 1024 × 496 Sub stream 2: 2560 × 1252; 1366 × 668 Panoramic network camera 2: Main stream: 5520 × 2700; 4600 × 2252; 3840 × 1880;
(lose Focus Distance		twork camera: 1.4 m (4.6 ft) 0.1 m–5 m (0.33 ft–16.40 ft) (T to W)				Resolution	2880 × 1408 Sub stream 1:1920 × 940; 1280 × 620; 1024 × 496 Sub stream 2: 2560 × 1252; 1366 × 668	
Iris Control		Panoramic network camera: Fixed PTZ camera: Auto						PTZ camera: Main stream: 3840 × 2160; 2560 × 1440; 1920 × 1080; 1280 × 960; 1280 × 720
	Lens	Detect	Observe	Recognize	Identify			Sub stream 1: 704 × 576/704 × 480; 352 × 288/352 × 240 Sub stream 2: 1920 × 1080; 1280 × 960; 1280 × 720
DORI Distance	Panoramic 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)		Bit Rate Control	CBR/VBR

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
5 /h: 1 ·	H.265: 12 kbps–16572 kbp	Certification	
Day/Night	Auto (ICR)/Color/B/W		CE-LVD: EN62368-1
BLC	Yes	Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
HLC	Yes Panoramic network camera 1: DWDR	Port	ree. 17 eritree rait 15, Subpart B
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 Optical Module	1 channel (CVBS outputs, NBC port)
Motion Detection	OFF/ON (4 areas, rectangular)	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) PTZ camera: Yes (4 areas)	Optical Fiber	FC
Image Stabilization (OIS)	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
	PTZ camera: Optical Image Stabilization (OIS) Panoramic network camera 1: No	Alarm Output	3 channels out: 1,000mA 30V DC/500mA 50V AC
Defog	Panoramic network camera 2: No PTZ camera: Optical defog	SDI	Yes
Panoramic network camera 1: No		Power	
Flip	Panoramic network camera 2: No 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		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)
Audio Compression	PCM; G.711A; G.711Mu; G.726; G.723; G.722.1; G.729; MPEG2-Layer2		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;		-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)
Audio Sampling	congestion; vehicle congestion; parking upper limit 8 KHz; 16 KHz; 32 KHz; 48 KHz; 64 KHz	Protection Grade	IP66; IK10 (optional)
	0 NTZ, 10 NTZ, 32 NTZ, 40 NTZ, 04 NTZ	Structure	
Network	DI 45 /40 /400 /4000 D. T.	Casing	Metal + Plastic
Network	RJ-45 (10/100/1000 Base-T)	Dimensions	Ф383 mm × 389.8 (Ф15.1" × 15.3")
SDK and API	Yes IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP;	Box Dimensions	500 mm × 500 mm × 658 mm (19.7" × 19.7" × 25.9") (L
Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; 802.1x; SNMP	Net Weight	× W × H) 14.7 kg (32.4 lb)
Interoperability	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					
	PBW059-00	Mount Adapter					
A i	PFB710C-SG	Ceiling Mount Bracket					
Accessories	PFB710W-SG	Wall Mount Bracket					
	PFA153-SG	Polo Mount Bracket					

Accessories

Included:



PBW059-00 Mount Adapter

Optional:



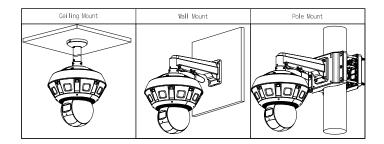
PFB710C-SG Ceiling Mount Bracket



PFB710W-SG Wall Mount Bracket



PFA153-SG Polo Mount Bracket



Dimensions (mm[inch])

