



# DH-IPC-PFW83242-A180

## 4x8MP WizMind Multi-Sensor Panoramic Bullet 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 splicing camera supports a 180° panoramic view and 4-channel hardware splicing to realize HD panoramic surveillance. The camera supports crowd situation analysis, vehicle situation analysis, and perimeter protection. It is widely applied in various scenes such as squares, airports, safe city, and traffic.

#### **Functions**

#### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission

#### **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 four-sensor camera can be 180°, and the field of view of eight-sensor camera can be 360°.

- 4 × 8MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 32MP (8192 × 3840) @25/30 fps; with intelligent functions enabled, it can output 32MP (8192 × 3840) @25 fps
- · Built-in IR LED, max. IR distance: 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- · Intelligent detection: Intrusion, tripwire
- Intelligent functions: Crowd distribution map, Vehicle situation
- Supports object tracking and image correction
- · Support video clip, the image can be clipped as needed
- · Supports max. 256 G Micro SD card
- 12V DC power supply
- IP67, IK10 protection















## **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.

#### **Vehicle Situation**

With deep learning algorithm, Dahua Vehicle Situation 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, intrusion) are largely reduced.

### Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification						Bit Rate Control	CBR/VBR
Camera					l.	Video Bit Rate	H.264: 96 kbps–65536 kbps
Image Sensor	1/1.8" 8Megapixel progressive CMOS					Day/Night	H.265: 38 kbps-55612 kbps  Auto (ICR)/Color/B/W
Max. Resolution	8192 (H) × 38	8192 (H) × 3840 (V)				BLC	Yes
ROM	4 GB	4 GB				HLC	Yes
RAM	8 GB	8 GB				WDR	DWDR
Scanning System	Progressive	Progressive					Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed	Auto/Manual	Auto/Manual 1/3 s-1/100,000 s				White Balance	custom
Min. Illumination	0.005 @F1.6	0.005 @F1.6				Gain Control	Auto/Manual
S/N Ratio	>56 dB					Noise Reduction	3D DNR
Illumination Distance	30 m (98.4 ft)	30 m (98.4 ft) (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/Off Control	Auto/Manual					Region of Interest (RoI)	Yes (4 areas)
Illuminator Number	8 (IR LED)					Smart Illumination	Yes
Pan/Tilt/Rotation Range	Tilt: 0°-90°					Privacy Masking	4 areas
	Rotation: 0°–360°				Audio		
Lens						Audio Compression	G.711A; G.711Mu; G.726; AAC; G.723
Lens Type	Fixed-focal					Alarm Event	
Mount Type	M12						No SD card; SD card full; SD card error; service life
Focal Length	2.8 mm					access; voltage detection; safety except Alarm Event detection; video tampering; scene chan	warning; network disconnection; IP conflict; illegal access; voltage detection; safety exception; motion detection; video tampering; scene changing; Input Abnormal detection; intensity change detection; external alarm; tripwire; intrusion; crowd density detection; traffic
Max. Aperture	F1.6						
Field of View	Horizontal: 180°; vertical: 90°						
Iris Type	Fixed					Network	
Close Focus Distance	1.8 m (5.9 ft)					Network	RJ-45 (10/100/1000 Base-T)
DORI Distance	Detect 84.0 m	Observe 33.6 m	Recognize 16.8 m	Identify 8.4 m		SDK and API	Yes
Professional, intellige	( 275.6 ft)	(110.2 ft)	(55.1 ft)	( 27.6 ft)		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; SNMP
Vehicle Situation	Vehicle density; parking upper limit; vehicle congestion alarm				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; RTMP	
IVS (Perimeter Protection)	Intrusion; trip	wire				User/Host	20
Crowd Distribution Map	Crowd map, g	dobal people o	ounting; peopl	e counting in		Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Video						Browser	IE7; IE11
Video Compression	H.265; H.264; by the sub str		4B; MJPEG (on	ly supported		Management Software	Smart PSS; DSS
Smart Codec		+/Smart H.265	- 5+			Certification	
Video Frame Rate	Main stream: 8192 × 3840 (1–25/30 fps) Sub stream: 1280 × 600 (1–25/30 fps) Third stream: 2304 × 1080 (1–25/30 fps)					Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Stream Capability	3 streams					Port	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
	Splicing: 32M (8192 × 3840); 7680 × 3600; 7168 × 3360; 6720 × 3152; 5760 × 2700; 4800 × 2252; 4096 × 1920; 2880 × 1360; 2304 × 1080; 1280 × 600; 2408 × 960; 1520 × 712					RS-485	1 (baud rate range: 1200 bps–115200 bps)
Resolution							
	Non-splicing: 4320 × 7680; 2880 × 5120; 2160 × 3840; 720 × 1280;				Audio Output	1 channel (RCA port)	
	1080 × 1920					Audio Output	1 channel (RCA port)

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Alarm Input	2 channels in: 5mA 3V–5V DC			
Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V DC			
Power				
Power Supply	12V DC			
Power Consumption	Basic power consumption: 13.6W (12V DC) Max. power consumption (Intelligent functions enabled + IR full intensity + WDR): 24.3W (12V DC)			

## Environment

Operating Temperature	-40°C to +60°C (-40°F to +140°F)	
Operating Humidity	≤95%	
Storage Temperature	-40°C to +60°C (-40°F to +140°F)	
Protection Grade	IP67; IK10	

#### Structure

Casing	Metal
Dimensions	297.0 mm × 169.0 mm × 120.0 mm (11.7" × 6.7" × 4.7") (L × W × H)
Net Weight	3.16 kg (7.0 lb)
Gross Weight	4.06 kg (9.0 lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC-PFW83242P-A180-E4	4x8MP WizMind Multi-Sensor Panoramic Bullet Network Camera			
32M	DH-IPC-PFW83242N-A180-E4	4x8MP WizMind Multi-Sensor Panoramic Bullet Network Camera			
Camera	IPC-PFW83242P-A180-E4	4x8MP WizMind Multi-Sensor Panoramic Bullet Network Camera			
	IPC-PFW83242N-A180-E4	4x8MP WizMind Multi-Sensor Panoramic Bullet Network Camera			
Accessories	PFA120-SG	Junction Box			
(Optional)	PFA150-SG	Pole Mount			

## Accessories

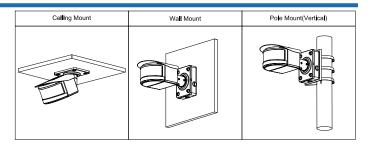
## Optional







Pole Mount



## Dimensions (mm[inch])

