

# DH-IPC-PFW3849S-A180-AS-PV

2x4MP TiOC Duo Splicing Fixed-focal Bullet WizSense Network Camera







Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

#### **Series Overview**

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Quick Pick, making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

### **Functions**

#### **SMD 4.0**

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

#### **EPTZ**

With advanced target detection and tracking algorithms, Dahua EPTZ technology can simultaneously zoom in and track multiple humans and vehicles that trigger alarms. It provides rich details and a panoramic view at the same time.

#### **Siren and Light Active Deterrence**

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

- · Outputs 180° wide angle splicing image.
- Outputs max. 8 MP (4096 × 1860)@20 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED and warm light, the max. IR illumination distance is 25 m and warm light distance is 20 m.
- ROI, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built in dual Mic; built in speaker, support two-way talk.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- · Sound and light alarm (red and blue lights).
- EPTZ: Enlarge and track the targets of intelligent alarms.
- SMD 4.0
- · One-tap arming/disarming through alarm input.













#### **Smart Dual Light**

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the warm light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the warm light is off and the IR illuminator is on, which reduces light pollution efficiently.

#### **One-tap Disarming**

Dahua One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs

#### Protection (IP67, 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.

Wide voltage: The camera allows  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

#### **Cyber Security**

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Technical Specification					Main stream: 4096 × 1860@(1–20 fps )			
Camera						Video Frame Rate	Sub stream: 1200 × 530@(1–20 fps) Third stream: 1920 × 860@(1–20 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Image Sensor		Dual 1/2.7" CMOS						
Max. Resolution		4096 (H) × 1860 (V)				Stream Capability	3 streams	
ROM		128 MB				Resolution	4096 × 1860; 3632 × 1632; 3040 × 1368; 1200 × 530;	
RAM		1 GB				Bit Rate Control	1920 × 860; 960 × 432 CBR/VBR	
Scanning Sys	stem	Progressive						H.264: 6 kbps –16384 kbps
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Video Bit Rate	H.265: 6 kbps –16384 kbps	
Min. Illumination		0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)				Day/Night	Auto(ICR)/Color/B/W	
						BLC	Yes	
S/N Ratio		>56 dB				HLC	Yes	
Illumination	Distance		2.02 ft) (IR LEI	,			WDR	120 dB
Illuminator (	On/Off Control	Up to 20 m (65.62 ft) (Warm light)  Auto; Manual				Scene Self-adaptation (SSA)	Yes	
Illuminator N	Number	2 (IR LED); 2 (Warm light)				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Angle Adjust	tment	Pan: 0°–360° Tilt: 0°–77°			Gain Control	Auto		
Aligic Aujust	inche	Rotation: 0°–360°			Noise Reduction	3D NR		
Lens						Motion Detection	OFF/ON (4 areas, rectangular)	
Lens Type	Lens Type		Fixed-focal				Region of Interest (RoI)	Yes (4 areas)
Lens Mount		M12				Privacy Masking	4 areas	
Focal Length	1	2.8 mm				Defog	Yes	
Field of View	ı	Horizontal: 180°; Vertical: 86°				Audio		
Max. Apertu	ire	F1.4				Built-in MIC	Yes, built-in dual Mic	
Iris Control		Fixed				Built-in Speaker	Yes, built-in speaker	
Close Focus	Distance	0.8 m (2.62 ft	)				Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
DORI	Lens	Detect	Observe	Recognize	Identify		Alarm	
Distance	2.8 mm	50.6 m (166.01 ft)	20.2 m (66.27 ft)	10.1 m (33.14 ft)	5.1 m (16.73 ft)			No SD card; SD card full; SD card error; network
Intelligen	ce er Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and				Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene chaging; audio detection; voltage detection; external alrm; SMD; security exception	
·	·	human)				Network		
SMD		SMD 4.0				Network Port	RJ-45 (10/100 Base-T)	
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.				SDK and API	Yes	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.				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	
EPTZ		Enlarge and track the targets of intelligent alarms					execution; Trusted upgrade	
Video	Video						Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;
Video Comp	Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP; P2P
Smart Codeo		Smart H.265+; Smart H.264+				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI	
Al Coding		AI H.265;			User/Host	20 (Total bandwidth: 64 M)		
Ai Couling		AI H.264					Storage	FTP; SFTP; Micro SD card (support max. 256 GB): NAS

Browser	IE: IE 8 and later Chrome Firefox
Management Software	Smart PSS Lite; DSS; DMSS
Mobile Client	iOS; Android

## Certification

	CE-LVD: EN62368-1
Certifications	CE-EMC: Electromagnetic Compatibility Directive
	2014/30/EU

## Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: wet contact, 5 mA 3 V–5 VDC
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC

#### Power

Power Supply	12 VDC (±30%); PoE (802.3af)
Power Consumption	Basic: 3.4 W (12 VDC); 3.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 9 W (12 VDC); 10.3 W (PoE)

#### 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	IP67		

#### Structure

Casing	Metal
Product Dimensions	183.1 mm $\times$ 99.0 mm $\times$ 78.0 mm (7.20" $\times$ 3.90" $\times$ 3.07") (L $\times$ W $\times$ H)
Net Weight	695 g (1.53 lb)
Gross Weight	870 g (1.92 lb)

Ordering Information			
Туре	Model	Description	
8MP Camera	DH-IPC-PFW3849S-A180- AS-PV	2x4MP TiOC Duo Splicing Fixed- focal Bullet WizSense Network Camera	
	IPC-PFW3849S-A180-AS-PV	2x4MP TiOC Duo Splicing Fixed- focal Bullet WizSense Network Camera	
	PFA130-E	Junction Box	
	PFA157	Pole Mount Bracket	
Accessories (Optional)	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	
	PFM-321D	12 VDC 1A Power Adapter	

## Accessories

## Optional:







PFA130-E Junction Box

PFA157 Pole Mount Bracket

PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



PFM321D 12V DC 1A Power Adapter

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

## Dimensions (mm[inch])

