

# DH-IPC-PFW5849-A180-E2-ASTE

2×4MP Full-color Duo Splicing 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**

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis.

## **Functions**

#### **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.

#### **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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

## **People Counting**

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/daily reports to meet your requirements.

- · Outputs 180° wide angle splicing image.
- Outputs max. 8 MP (4096 × 1800)@25 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light, and the max. illumination distance is 40 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. 512 G Micro SD card, built-in Mic and speaker, support two-way talk.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- Intelligent monitoring: Intrusion, tripwire, heat map, and people counting.
- EPTZ: Enlarge and track the targets of intelligent alarms.
- · SMD.













## ePoE

Dahua's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

## **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.

#### 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.

Technical Specification						Smart Codec	Smart H.265+; Smart H.264+	
Camera						Al Coding	AI H.265; AI H.264	
Image Sensor		Dual 1/1.8" C	Dual 1/1.8" CMOS					WDR Off:
Max. Resolution		4096 (H) × 1800 (V)				Video Frame Rate	Main stream: 4096 × 1800 @ (1–25 fps) sub stream: 1024 × 452 @ (1–25 fps) third stream: 1920 × 832 @ (1–25 fps) WDR On: Main stream: 4096 × 1800 @ (1–20 fps)	
ROM		128 MB						
RAM		1 GB					video Frante Nate	sub stream: 1024 × 452 @ (1–20 fps) third stream: 1920 × 832 @ (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.
Scanning Syst	tem	Progressive						
Electronic Sh	utter Speed	Auto/Manual 1/3 s–1/100,000 s						
Min. Illumination		0.0005 lux@F1.0 (Color, 30 IRE) 0.0002 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Stream Capability Resolution	3 streams 8M (4096 × 1800); 6.5M (3840 × 1680); 4M (3840 × 1080); 4M (2880 × 1264); 1.6M (1920 × 832); 0.7M (1280 × 560); 0.5M (1024 × 452)
S/N Ratio		>56 dB				Bit Rate Control	CBR/VBR	
Illumination I	Distance	40 m (131.23	ft)				Video Bit Rate	H.264: 9 kbps-8192 kbps H.265: 9 kbps-8192 kbps
Illuminator O	n/Off Control	Auto					Day/Night	Color/B/W
Illuminator N	umber	4 (Warm light	:)				BLC	Yes
Pan/Tilt/Rota	ation Pange	Pan: 0°-360° Tilt: 0°-90°					HLC	Yes
rany mic/Note	ation Kange	Rotation: 0°–360°				WDR	140 dB	
Lens						Scene Self-adaptation		
Lens Type		Fixed-focal				(SSA)	Yes	
Lens Mount		M16				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Focal Length		3.6 mm				Gain Control	Auto	
Field of View		Horizontal: 180°; Vertical: 48°				Noise Reduction	3D NR	
Max. Apertui	re	F1.0				Motion Detection	OFF/ON (4 areas, rectangular)	
Iris Control		Fixed				Region of Interest (RoI)	Yes (4 areas)	
Close Focus [	Distance	3.6 m (11.81 ft)				Privacy Masking	4 areas	
DORI	Lens	Detect	Observe	Recognize	Identify		Defog	Yes
Distance	3.6 mm	70.3 m (230.64 ft)	28.1 m (92.19 ft)	14.1 m (46.26 ft)	7.0 m (22.97 ft)		Audio	
Intelligend	ce						Built-in MIC	Yes
		lataria tai		(+l +l £			Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
IVS (Perimete	er Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection				Alarm		
		of vehicle and human); loitering detection, people gathering, and parking detection						No SD card; SD card full; SD card error; network
Heat Map		Yes						disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast
Smart Object Detection		Smart abandoned object; smart missing object					Alarm Event	moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; SMD; people counting in area; stay detection; people counting; security exception
S. Hart Object Detection		Support the counting of enter number, leave number						
People Counting		and pass number, and displaying and outputting yearly/monthly/daily reports.					Network	people counting, security exception
		Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and				Network Port	RJ-45 (10/100 Base-T)	
		link alarm. Support queue management, and 4 rules configuration.					SDK and API	Yes
		Count number of people or stay time and link alarm.				JUN GIRG AFT		
Video Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				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	

Network Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; Bonjour	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone	
User/Host	20 (Total bandwidth: 80 M)	
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS	
Browser	IE: IE 8 and later Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
Mobile Client	iOS; Android	

## Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

## Port

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

## Power

Power Supply	12 VDC (±30%)/PoE+ (802.3at)/ePoE		
Power Consumption	Basic: 4.8 W (12 VDC); 5.5 W (PoE) Max. (WDR + intelligence + warm light + SPK): 10.5W (12 VDC); 11.8 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 + plastic		
Product Dimensions	301.2 mm $\times$ 128.2 mm $\times$ 120.1 mm (11.86" $\times$ 5.05" $\times$ 4.73") (L $\times$ W $\times$ H)		
Net Weight	1420 g (3.13 lb)		
Gross Weight	1570 g (3.46 lb)		

Ordering Information			
Туре	Model	Description	
ONAD Comerce	DH-IPC-PFW5849P-A180- E2-ASTE	2×4MP Full-Color Duo Splicing WizMind Network CAMERA, PAL	
8MP Camera	IPC-PFW5849P-A180-E2- ASTE	2×4MP Full-Color Duo Splicing WizMind Network CAMERA, PAL	
	PFA5300R	Junction Box	
	PFA157	Pole Mount Bracket	
Accessories (Optional)	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	
	PFM321D	12 VDC 1A Power Adapter	

## Accessories

# Optional:







PFA157 Pole Mount Bracket



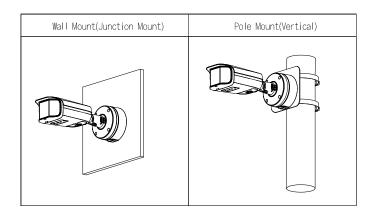
PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



PFM321D 12V DC 1A Power Adapter



# Dimensions (mm[inch])

