

# 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.
- · SMD3.0.













#### 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	on					Video	
Camera				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)			
Image Sensor		Dual 1/1.8" CMOS			Smart Codec	Smart H.265+; Smart H.264+		
Max. Resolut	tion	4096 (H) × 1800 (V)				Al Coding	AI H.265; AI H.264	
ROM	ROM		128 MB					WDR Off: Main stream: 4096 × 1800 @ (1–25 fps) sub stream: 1024 × 452 @ (1–25 fps)
RAM	RAM		1 GB					
Scanning Sys	Scanning System		Progressive					third stream: $1920 \times 832 @ (1-25 \text{ fps})$ WDR On:
Electronic Sh	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Video Frame Rate	Main stream: 4096 × 1800 @ (1–20 fps) sub stream: 1024 × 452 @ (1–20 fps) third stream: 1920 × 832 @ (1–20 fps)
Min. Illumina	Min. Illumination		0.0005 lux@F1.0 (Color, 30 IRE) 0.0002 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)					*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
S/N Ratio		>56 dB					Stream Capability	3 streams
Illumination	Distance	40 m (131.23	0 m (131.23 ft)				Resolution	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)
Illuminator C	On/Off Control	Auto					Bit Rate Control	CBR/VBR
Illuminator N	Illuminator Number		4 (Warm light) Pan: 0°–360°				Video Bit Rate	H.264: 9 kbps-8192 kbps H.265: 9 kbps-8192 kbps
Pan/Tilt/Rot	ation Range	Tilt: 0°–90° Rotation: 0°–360°				Day/Night	Color/B/W	
Lens							BLC	Yes
Lens Type		Fixed-focal				HLC	Yes	
Lens Mount			M16				WDR	140 dB
Focal Length	Focal Length		3.6 mm				Scene Self-adaptation (SSA)	Yes
Field of View	Field of View		H: 180°±10° V: 48°				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Max. Apertu	Max. Aperture		F1.0				Gain Control	Auto
Iris Control		Fixed				Noise Reduction	3D NR	
Close Focus	Distance	3.6 m (11.81 ft)				Motion Detection	OFF/ON (4 areas, rectangular)	
	Lens	Detect	Observe	Recognize	Identify		Region of Interest (RoI)	Yes (4 areas)
	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)		Privacy Masking	4 areas
DORI Distance		It (Detect, Observe, Recognize, Identify) is a standard system (2676-4) for defining the ability of a person viewing the to distinguish persons or objects within a covered area. The obers in this table do not reflect intelligent function distances. Itelligent function distances, refer to installation and hissioning manual/project design tool.					Defog	Yes
	video to distir						Audio	
	For intelligent						Built-in MIC	Yes
Intelligen	Intelligence						Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
	Intrusion, tripwire, fast moving (the three functions				Alarm			
IVS (Perimet	IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection					No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast
Heat Map		Yes					Alarm Event	moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene
Smart Objec	Smart Object Detection		Smart abandoned object; smart missing object					changing; audio detection; voltage detection; external alarm; SMD; people counting in area; stay detection; people counting; security exception
		and pass num	nber, and displa	er number, lea aying and outp			Network	
People Coun	People Counting		monthly/daily reports.  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	

Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm

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 11 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
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## 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): 12.3 W (12 VDC); 13.8 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	
OMD Comovo	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:







PFA5300R Junction Box

PFA157 Pole Mount Bracket

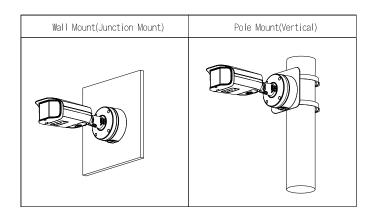
Integrated Mount Tester







PFM321D 12V DC 1A Power Adapter



# Dimensions (mm[inch])

