



# DH-IPC-HDBW5842R-ASE-S2

8 MP IR Fixed-focal Dome 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. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

#### **Functions**

### **Face Detection**

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

#### **Face Attributes**

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

#### **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.

- 8 MP 1/1.8" CMOS image sensor, low illuminance, high image definition (high definition image).
- Outputs max. 8 MP (3840× 2160) @30 fps.
- · Max. IR distance: 50 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, 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 Mic.
- 12 VDC/PoE power supply.
- · ePoE, IP67, IK10 protection.
- SMD 3.0













#### **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.

#### ePoF

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, 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% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical	Specification	on						Face det
Camera							Face Detection	face enh
Image Sensor		1/1.8" CMOS					time sna snapsho	
Max. Resolution		3840(H) × 2160(V)						Support
ROM		128 MB						and pass monthly,
RAM		1 GB				People Counting	People Counting	Support
Scanning System		Progressive					link alarn Support ( Count nu	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s						Work tog
Min. Illumination		0.004 Lux@F1.4 (Color, 30IRE) 0.0004 Lux@F1.4 (B/W, 30IRE) 0 lux (Illuminator on)					Intelligent Search	intelliger videos.
S/N Ratio		> 56 dB					Video	
	B	2.8 mm: 30 m (98.4 ft)					Video Compression	H.265; H by the su
Illumination	Distance	3.6 mm: 30 m (98.4 ft) 6 mm: 50 m (164.0 ft)				Smart Codec	Smart H.	
Illuminator (	On/Off Control	Auto; manual						Main stre
Illuminator N	Number	2 (IR)				Video Frame Rate	Third stre	
Pan/Tilt/Rot	tation Range	Pan: 0°-355°						multiple st capacity.
Tany They Not	ation nange	Tilt: 0°–80° Rotation: 0°–355°				Stream Capability	3 stream	
Lens							3840 × 2 2688 × 1	
Lens Type		Fixed-focal				Resolution	1080); 1. × 576/70 × 240)	
Lens Mount		M16					Bit Rate Control	CBR/VBR
Focal Length		2.8 mm; 3.6 mm; 6 mm				Video Bit Rate	H.264: 3	
Max. Aperture		F1.4					H.265: 3	
Field of View		2.8 mm: Horizontal 111°; Vertical 59°; Diagonal 131° 3.6 mm: Horizontal 87°; Vertical 47°; Diagonal 102° 6 mm: Horizontal 55°; Vertical 30°; Diagonal 64°					Day/Night	Auto (ICF
Iris Control		Fixed					BLC	Yes
		2.8 mm: 1.8 m (5.9 ft)					HLC	Yes
Close Focus Distance		3.6 mm: 2.5 m (8.2 ft) 6 mm: 4.3 m (14.1 ft)					WDR	120 dB
	Lens	Detect	Observe	Recognize	Identify		White Balance	Auto; na custom
	2.8 mm	85.4 m	34.2 m	17.1 m	8.5 m		Gain Control	Auto; ma
DORI Distance	2.6	(280.2 ft) 106 m	(112.2 ft) 42.4 m	(56.1 ft) 21.2 m	(27.9 ft) 10.6 m		Noise Reduction	3D NR
	3.6 mm	(347.8 ft)	(139.1 ft)	(69.6 ft)	(34.8 ft)		Motion Detection	OFF/ON
	6 mm	164.8 m (540.7 ft)	65.9 m (216.2 ft)	33 m (108.3 ft)	16.5 m (54.1 ft)		Region of Interest (RoI)	Yes (4 are
Smart Event							Smart Illumination	Yes
IVS		Abandoned object; missing object					Defog	Yes
Heat Map		Yes					Image Rotation	0°/90°/1 resolutio
Professional, intellige		ent					Mirror	Yes
IVS (Perimeter Protection)		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection				Privacy Masking	8 areas	
		of vehicle and human); loitering detection; people gathering; parking detection					Audio	
							Ruilt-in MIC	Vec

Face Detection	Face detection; track; snapshot optimization; snapshot; face enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimized snapshot, quality priority snapshot; face angle filter; optimization time setting			
People Counting	Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports.  Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm.  Support queue management, and 4 rules configuration.  Count number of people or stay time and link alarm.			
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.			
Video				
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)			
Smart Codec	Smart H.265+/H.264+			
Video Frame Rate	Main stream: $3840 \times 2160 (1 \text{ fps}-25/30 \text{ fps})$ Sub stream: D1 (1 fps-25/30 fps) Third stream: $1080p (1 \text{ fps}-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.			
Stream Capability	3 streams			
Resolution	3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944; 2688 × 1520; 2048 × 1536; 2304 × 1296; 1080p (1920 × 1080); 1.3 M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			
Bit Rate Control	CBR/VBR			
Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps			
Day/Night	Auto (ICR)/Color/B/W			
BLC	Yes			
HLC	Yes			
WDR	120 dB			
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom			
Gain Control	Auto; manual			
Noise Reduction	3D NR			
Motion Detection	OFF/ON (4 areas, rectangular)			
Region of Interest (RoI)	Yes (4 areas)			
Smart Illumination	Yes			
Defog	Yes			
Image Rotation	0°/90°/180°/270°(Support 90°/270° with 4M resolution and lower)			
Mirror	Yes			
Privacy Masking	8 areas			
Audio				
Built-in MIC	Yes			
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723			

Alarm			
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; intrusion; tripwire; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input abnormal detection; intensity change detection; people counting; face detection; people counting in area; stay alarm; people No. exception detection; queue management		
Network			
Network Port	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade		
Network 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		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P		
User/Host	20 (Total bandwidth: 80 M)		
Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS		
Browser	IE: IE8 and later Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
Management Software  Mobile Client	Smart PSS; DSS; DMSS iOS; Android		
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Mobile Client			
Mobile Client  Certification	iOS; Android  CE-LVD: EN62368-1  CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU  FCC: 47 CFR FCC Part 15, Subpart B		
Mobile Client  Certification  Certifications	iOS; Android  CE-LVD: EN62368-1  CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU  FCC: 47 CFR FCC Part 15, Subpart B		
Mobile Client Certification Certifications	iOS; Android  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		
Mobile Client Certification Certifications Port Audio Input	iOS; Android  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		
Mobile Client Certification Certifications  Port Audio Input Audio Output	iOS; Android  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  1 channel (RCA port) 1 channel (RCA port)		
Mobile Client Certification Certifications  Port Audio Input Audio Output Alarm Input	iOS; Android  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  1 channel (RCA port) 1 channel (RCA port) 1 channel in: 5mA 3V–5 VDC		
Mobile Client Certification Certifications  Port Audio Input Audio Output Alarm Input Alarm Output	iOS; Android  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  1 channel (RCA port) 1 channel (RCA port) 1 channel in: 5mA 3V–5 VDC		
Mobile Client Certification  Certifications  Port Audio Input Audio Output Alarm Input Alarm Output Power	iOS; Android  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  1 channel (RCA port) 1 channel (RCA port) 1 channel in: 5mA 3V–5 VDC 1 channel out: 300mA 12 VDC		
Mobile Client Certification  Certifications  Port Audio Input Audio Output Alarm Input Alarm Output Power Power Supply	iOS; Android  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  1 channel (RCA port) 1 channel (RCA port) 1 channel in: 5mA 3V–5 VDC 1 channel out: 300mA 12 VDC  12 VDC (±30%)/PoE (802.3af)/ePoE  Basic power consumption: 3.6W (12V DC); 4.0W (PoE) Max. power consumption (H.265 + max. stream +		
Mobile Client Certification  Certifications  Port Audio Input Audio Output Alarm Input Alarm Output Power Power Supply  Power Consumption	iOS; Android  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  1 channel (RCA port) 1 channel (RCA port) 1 channel in: 5mA 3V–5 VDC 1 channel out: 300mA 12 VDC  12 VDC (±30%)/PoE (802.3af)/ePoE  Basic power consumption: 3.6W (12V DC); 4.0W (PoE) Max. power consumption (H.265 + max. stream +		

Protection	IP67; IK10
Structure	
Casing	Metal
Product Dimensions	94 mm × Φ122 mm (3.7" × Φ4.8")
Net Weight	712.9 g (1.6 lb)
Gross Weight	986 g (2.2 lb)

Ordering Information					
Туре	Model	Description			
	DH-IPC-HDBW5842RP-ASE- 0280B-S2	8 MP IR Fixed-focal Dome WizMind Network Camera, PAL			
	DH-IPC-HDBW5842RP-ASE- 0360B-S2	8 MP IR Fixed-focal Dome WizMind Network Camera, PAL			
8 MP Camera	DH-IPC-HDBW5842RP-ASE- 0600B-S2	8 MP IR Fixed-focal Dome WizMind Network Camera, PAL			
	IPC-HDBW5842RP-ASE- 0280B-S2	8 MP IR Fixed-focal Dome WizMind Network Camera, PAL			
	IPC-HDBW5842RP-ASE- 0360B-S2	8 MP IR Fixed-focal Dome WizMind Network Camera, PAL			
	IPC-HDBW5842RP-ASE- 0600B-S2	8 MP IR Fixed-focal Dome WizMind Network Camera, PAL			
	PFA137	Junction Box Bracket			
	PFA109	Mount Adapter			
	PFB220C	Celling Mount Bracket			
Accessories (Optional)	PFM321D	12 VDC 1 A Power Adapter			
Орионал	LR1002-1ET/1EC	Single-port Long Reach Ethernet ove Coax Extender			
	PFM900-E	Integrated Mount Tester			
	PFM114	TLC SD Card			

### **Accessories**

# Optional:



PFA137 Junction Box Bracket



PFA109 Mount Adapter

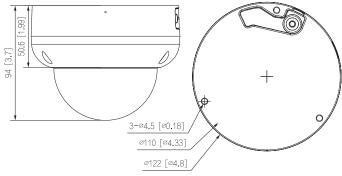


PFB220C Celling Mount Bracket



PFM900-E Integrated Mount Tester

Dimensions (mm[inch])





PFM321D 12 VDC 1 A Power Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over



PFM114 TLC SD Card

