

# DH-IPC-HDBW5442R-ASE

4MP WDR IR Dome WizMind Network Camera



epoer Wiz Mind

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 dustproof 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.

#### **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.

- · 1/1.8" 4Megapixel progressive scan CMOS
- $\cdot$  ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 25/30 fps@2688 × 1520, 50/60 fps@1080P (1920 × 1080)
- $\cdot$  WDR (140 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- $\cdot$  2.8 mm fixed lens (3.6 mm, 6.0 mm optional)
- $\cdot$  1/1 Alarm in/out, 1/1 audio in/out
- $\cdot$  Max. IR LEDs Length 50 m
- · Micro SD memory, IP67, IK10



#### **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.

#### ePoE

Dahua ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

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



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# **Technical Specification**

# Camera

Camera						
Image Sensor		1/1.8" 4Mega	1/1.8" 4Megapixel progressive scan CMOS			
Max. Resolution		2688 (H) × 1520 (V)				
RAM/ROM		512 MB/128	512 MB/128 MB			
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s				
S/N Ratio		> 56 dB				
Minimum Illumination		0.001 Lux@F1.6 (color), 0 lux@F1.6 (IR ON)				
Illumination Distance		Distance up to 50 m (164 ft)				
Illuminator On/Off Control		Auto/Manua	Auto/Manual			
Illuminator Number		1 (IR LED)	1 (IR LED)			
Lens						
Lens Type		Fixed-focal	Fixed-focal			
Mount Type		Board-in	Board-in			
Focal Length		2.8 mm, 3.6 r	2.8 mm, 3.6 mm, 6.0 mm			
Max. Aperture		F1.6	F1.6			
Angle of View		H: 113°, V: 60°/H: 89°, V: 48°/H: 56°, V: 31°				
Aperture Type		Fixed	Fixed			
Close Focus Dista	nce	1.3 m (4.27 f	1.3 m (4.27 ft)/1.9 m (6.23 ft)/3.8 m (12.47 ft)			
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)	
DOM DIStance	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)	
	6.0mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)	
Pan/Tilt/Rotati	on					
Pan/Tilt/Rotation	Range	Pan: 0°–355°;	Pan: 0°–355°; Tilt: 0°–75°; Rotation: 0°–355°			
Artificial Intelli	gence					
Face Detection		Face detection; track; optimization; snapshot; face enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting				
Perimeter Protection		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection				
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

## **General Intelligence**

General Intelligence			
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly		
General Intelligence	Object Abandoned/Missing		
Heat Map	Yes		
Video			
Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by sub stream)		
Smart Codec	Smart H.265+/ Smart H.264+		
Streaming Capability	3 Streams		
Resolution	2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)		
	Main Stream: 2688 × 1520 (1 fps–25/30 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)		
Frame Rate	Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 fps)		
	Third Stream: D1 (1 fps-25fps)		
Bit Rate Control	CBR/VBR		
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC Mode	BLC/HLC/WDR (140 dB)		
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual		
Gain Control	Auto/Manual		
Noise Reduction	3D DNR		
Motion Detection	Off/On (4 Zone, Rectangle)		
Region of Interest	Off/On (4 Zone)		
Smart Illumination	Yes		
Defog	Yes		
Flip	0°/90°/180°/270°		
Mirror	Off/On		
Privacy Masking	Off/On (4 Area, Rectangle)		
Alarm			
Alarm Event	No SD card;SD card full;SD card error;network disconnection;IP conflict;illegal access;voltage detection;motion detection;video tampering;scene changing;intrusion;tripwire;abandoned object;missing object;fast moving;parking detection;loitering detection;people gathering;people counting;face detection;People counting in area;Stay alarm;People No. exception detection;Queue Management		
Network			
Ethernet	RJ-45 (10/100 Base-T)		
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;PPPoE;802.1x;SNMP		

# Wiz Mind | DH-IPC-HDBW5442R-ASE

Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
User/Host	20 Users
Storage	NAS;FTP;SFTP;Dahua Cloud Micro SD card 256 GB
Browser	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Management Software	Smart PSS, DSS, DMSS
Mobile Phone	iOS, Android
Certifications	
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
Interface	
Audio Interface	1/1 channel In/Out
Alarm	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC
Electrical	
Power Supply	DC 12V (±30%), PoE (802.3af)
Power Consumption	<6.1W
Environmental	
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/Less than 95% RH
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67,IK10
Construction	
Casing	Metal
Dimensions	Φ122.0 mm × 88.9 mm (4.80" × 3.50")
Net Weight	0.47 kg (1.04 lb)

# **Ordering Information**

Gross Weight

Туре	Part Number	Description	
4MP camera	DH-IPC- HDBW5442RP-ASE	4MP WDR IR Dome WizMind Network Camera, WDR, PAL	
	DH-IPC- HDBW5442RN-ASE	4MP WDR IR Dome WizMind Network Camera, WDR, NTSC	
	IPC-HDBW5442RP- ASE	4MP WDR IR Dome WizMind Network Camera, WDR, PAL	
	IPC-HDBW5442RN- ASE	4MP WDR IR Dome WizMind Network Camera, WDR, NTSC	

0.63 kg (1.39 lb)

Accessories (optional)	PFA137	Junction box
	PFB200C	Inceiling Mount
	PFA200W	Rain Shade
	PFA123	Junction box
	PFB203W	Wall Mount
	PFA152-E	Pole Mount
	PFA106	Mount Adapter
	PFB220C	Ceiling Mount

### Accessories

#### **Optional:**

PFA137

Junction box







PFA123 Junction box



Inceiling Mount

Pole Mount



Mount Adapter

Rain Shade

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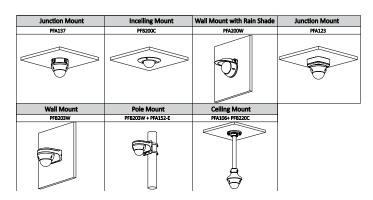


PFB220C Ceiling Mount

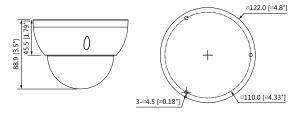


LR1002 ePoE Over Coax Converter

PFB203W



# Dimensions (mm[inch])



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