

# DH-IPC-HDBW5442R-ASE

4MP WDR IR Dome Al Network Camera





Dahua AI series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua AI series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. The complete lineup of Dahua AI includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

#### **System Overview**

Pro Al series contains Face Capture, Perimeter Protection and People Counting functions. Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Meanwhile, the series features starlight and smart IR technology. This series fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

### **Functions**

#### Perimeter Protection

Dahua's Perimeter Protection functions significantly improved accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or to a mobile client reduces system requirements and resources resulting in greater surveillance system efficiency.

#### **People Counting**

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

- · 1/1.8" 4Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4Mp(2688×1520)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm/6mm optional)
- · Max. IR LEDs Length 51m
- · Micro SD memory, IP67, IK10













#### Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Dahua face detection camera can extract six facial attributes and output the metadata for analysis.

## ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer 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)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.



Technical Spe	ecification						Main Stream: 4M(1~25/30ps)
Camera			Frame Rate	Sub Stream: D1(1~25/30fps)			
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS				Traine nate	Third Stream: 1080P(1~11fps)
Effective Pixels		2688(H) x 15	20(V)			Bit Rate Control	CBR/VBR
RAM/ROM		512MB/128N	ИΒ				H.264: 32~ 8192Kbps
Scanning System		Progressive				Bit Rate	H.265: 19~ 8192Kbps
Electronic Shutte	er Speed	Auto/Manua	l, 1/3~1/1000	00s		Day/Night	Auto(ICR) / Color / B/W
		0.001653Lux/F1.6 ( Color,1/3s,30IRE)				BLC Mode	BLC / HLC / WDR(120dB)
Minimum Illumination		0.01482Lux/F1.6 ( Color,1/30s,30IRE) 0Lux/F1.6(IR on)				White Balance	Auto/Natural/Street Lamp/Out
IR Distance		2.8mm:Distance up to 26m (85ft) 3.6mm:Distance up to 34m (112ft)				Gain Control	Auto/Manual
Distance		6mm:Distance up to 51m (167ft)				Noise Reduction	3D DNR
IR On/Off Control	I	Auto/ Manua	al			Motion Detetion	Off / On (4 Zone, Rectangle)
IR LEDs		1				Region of Interest	Off / On (4 Zone)
Lens						Electronic Image Stabilization (EIS)	N/A
Lens Type		Fixed				Smart IR	Support
Mount Type		Board-in				Defog	Support
Focal Length		2.8mm,3.6mm,6.0mm				Digital Zoom	N/A
Max. Aperture		F1.6				Flip	0°/90°/180°/270°
Angle of View		H: 113°, V:60°/H: 89°, V:48°/H: 56°, V:31°				Mirror	Off / On
Optical Zoom		N/A				Privacy Masking	Off / On (4 Area, Rectangle)
Aperture Type		Fixed					Off / On (4 Area, Rectangle)
Close Focus Dista	ance	1.3m(4.27ft)/1.9m(6.23t)/3.8m(12.47ft)				Audio	
	Lens	Detect	Observe	Recognize	Identify	Compression	G.711a/G.711Mu/G.726/AAC/G
	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)	Network	
DORI Distance	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)	Ethernet	RJ-45 (10/100Base-T)
	6.0mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)	Protocol	HTTP; TCP; ARP; RTSP; RTP; UD FTP; DHCP; DNS; DDNS; PPPoE; UPnP;NTP
Pan/Tilt/Rotati						Interoperability	ONVIF(Profile S/Profile G),
Pan/Tilt/Rotation	n Range	Pan:0°~355°;	Tilt:0°~75°; Ro	otation:0°~355	0	, ,	CGI,Milstone,Genetec,P2P
Artificial Intelli	igence					Streaming Method	Unicast / Multicast
Perimeter Protecti	ion	Tripwire, Intr	Tripwire, Intrusion(Human & Vehicle classification)			Max. User Access	20 Users NAS
People Counting		Line crossing people counting, Region people counting, Loitering filter			eople	Edge Storage	FTP Mirco SD card 256GB
General Intellig	gence	Motion detection, Video tampering , Scene			ene	Web Viewer	IE(versions newer than IE8), Chi Firefox, Safari(versions newer t
Event Trigger		changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Management Software	Smart PSS, DSS, P2P
General Intelligence		Object Abandoned/Missing				Smart Phone	iOS, Android
Video						Certifications	
Compression		H.265/H.264	/H.264H/H.26	64B/MJPEG(su	ıb stream)		CE-LVD:EN60950-1
Streaming Capability		3 Streams				0. 115. 11	CE-EMC:Electromagnetic Comp 2014/30/EU
Resolution		4M(2688×1520)/3M(2304×1296)/1080P(192 0x1080)/1.3M(1280x960)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)			20)/	Certifications	FCC:47 CFR FCC Part 15, Subpar UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

#### Interface

Video Interface	N/A
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC

#### Electrical

Power Supply	DC12V, PoE(802.3af)(Class 0)
Power Consumption	DC12V:2.8W 5.6W(IR on)

#### Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / 10%RH~95% RH
Strorage Conditions	+5° C $^{\sim}$ +40° C (+41° F $^{\sim}$ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH $^{\sim}$ 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

#### Construction

Casing	Metal, plastic
Dimensions	Ф122mm×88.9mm (4.80"×3.50")
Net Weight	0.47Kg (1.04lb)
Gross Weight	0.63Kg (1.39lb)

Ordering Information				
Туре	Part Number	Description		
4MP camera	DH-IPC- HDBW5442RP-ASE	4MP WDR IR Dome AI Network Camera, WDR,PAL		
	DH-IPC- HDBW5442RN-ASE	4MP WDR IR Dome Al Network Camera, WDR,NTSC		
	IPC-HDBW5442RP- ASE	4MP WDR IR Dome AI Network Camera, WDR,PAL		
	IPC-HDBW5442RN- ASE	4MP WDR IR Dome AI Network Camera, WDR,NTSC		
	PFA137	Junction box		
	PFB200C	Inceiling Mount		
	PFA200W	Rain Shade		
Accessories	PFA123	Junction box		
(optional)	PFB203W	Wall Mount		
	PFA152-E	Pole Mount		
	PFA106	Mount Adapter		
	PFB220C	Ceiling Mount		

## 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



LR1002 ePoE Over Coax Converter

Junction Mount	Inceiling Mount	Wall Mount with Rain Shade	Junction Mount
PFA137	PFB200C	PFA200W	PFA123
	6		
Wall Mount	Pole Mount	Ceiling Mount	
PFB203W	PFB203W + PFA152-E	PFA106+ PFB220C	

# Dimensions (mm/inch)



