

# DH-IPC-HDBW5449R-ASE-NI

4MP Pro Al Full-color Fixed-focal Dome Network Camera





- 1/1.8" 4Megapixel progressive scan CMOS
- H.265 & H.264 triple-stream encoding
- 25/30 fps@2688 × 1520, 50/60 fps@1080 (1920 × 1080)
- WDR (140 dB), Day/Night (Electronic), 3D DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- 3.6 mm fixed lens
- 1/1 Alarm in/out, 1/1 audio in/out
- · Micro SD memory, IP67, IK10











### **System Overview**

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

### **Functions**

### **Face Detection**

Face Detection is a software application that automatically captures faces from within a digital image or a video frame from a video source. Dahua cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

### **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.

### 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  $\pm 30\%$  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.

### **Full-color Starlight**

The camera adopts F1.0 large aperture lens and 1/1.8" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera presents an impressive low light performance with an exceptional balance between noise reduction and the blur of moving object.



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Technical Specification								Main Stream: 2688 × 1520 (1 fps–25/30 fps) 2560 × 1440 (1 fps–25/30 fps)
Camera						Frame Rate	1920 × 1080 (1 fps–50/60 fps)	
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS					ri dille Nate	Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)
Effective Pixels		2688 (H) × 1520 (V)						Third Stream: 1080P (1 fps–16 fps)
RAM/ROM		1 GB/128 MB					Bit Rate Control	CBR/VBR
Scanning System		Progressive					Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s					Day/Night	Day/Night: Electronic Color/B/W
Minimum Illumination		0.001 Lux @F1.0					BLC Mode	BLC/HLC/WDR (140 dB)
Lens							White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Lens Type		Fixed-focal					Gain Control	Auto/Manual
Mount Type		Board-in					Noise Reduction	3D DNR
Focal Length		3.6 mm					Motion Detetion	Off/On (4 Zone, Rectangle)
Max. Aperture		F1.0					Region of Interest	Off/On (4 Zone)
Angle of View	Angle of View		,				Defog	Yes
Aperture Type		Fixed					Flip	0°/90°/180°/270°
Close Focus Dist	ance	2.0 m (6.56 f	2.0 m (6.56 ft)				Mirror	Off/On
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	Off/On (4 Area, Rectangle)
	3.6mm	70 m (230 ft)	28 m (91 ft)	14m(46ft)	7m(23ft)		Audio	, ( )
Pan/Tilt/Rotation							Compression	G.711a, G.711Mu, G.726, AAC, G.723
Pan/Tilt/Rotatio	n Range	Pan: 0°-355°	; Tilt: 0°–75°; R	Rotation: 0°–3	355°		Network	,
Artificial Intel	ligence						Ethernet	RJ-45 (10/100 Base-T)
Face Detection		Support face	Support face image capture					IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP;
Perimeter Protec	Perimeter Protection		Tripwire; intrusion (Recognition of vehicle and people); fast moving; loitering detection; parking detection and people gathering				Protocol	RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP
People Counting			e crossing/Reg pport 4 access				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milstone, Genetec; P2P
		detection, 4	areas indeper	ndent detection	on		Streaming Method	Unicast/Multicast
General Intell	igence						Max. User Access	20 Users
Event Trigger		changing, Ne	ction, Video ta etwork disconi gal Access,Stor	nection , IP ac	ddress		Edge Storage	NAS; FTP; SFTP Micro SD card 256 GB
General Intelligence		Object Abandoned/Missing					Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Heat Map		Yes					Management Software	Smart PSS, DSS, P2P
Video							Smart Phone	iOS, Android
Compression		H.265, H.264, H.264B, H.264H,					Certifications	
Smart Codec		MJPEG(sub stream) Yes					Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Streaming Capability		3 Streams						FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Resolution		2688 x 1520	2688 × 1520/2560 × 1440/2304 × 1296/1080P				Interface	
		(1920 × 1080	(1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)				Audio Interface	1/1 channel In/Out
							Alarm	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC

## Pro Al Series | DH-IPC-HDBW5449R-ASE-NI

### Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<4.4W

### Environmental

Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH
Storage Conditions	-30° C to +60° C (-22° F to +140° F)
Ingress Protection	IP67
Vandal Resistance	IK10

### Construction

Casing	Metal
Dimensions	Φ122.0 mm × 88.9 mm (4.80" × 3.50")
Net Weight	0.46 kg (1.01 lb)
Gross Weight	0.62 kg (1.37 lb)

#### **Ordering Information** Part Number Туре Description DH-IPC-4MP Pro Al Full-color Fixed-focal Dome HDBW5449RP-Network Camera, WDR, PAL ASE-NI DH-IPC-4MP Pro Al Full-color Fixed-focal Dome HDBW5449RN-Network Camera, WDR, NTSC 4MP camera ASE-NI IPC-HDBW5449RP-4MP Pro Al Full-color Fixed-focal Dome ASE-NI Network Camera, WDR, PAL IPC-HDBW5449RN-4MP Pro Al Full-color Fixed-focal Dome Network Camera, WDR, NTSC ASE-NI PFA137 Junction box PFB200C Inceiling Mount PFA200W Rain Shade PFA123 Junction box Accessories (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
	(F)		
Wall Mount	Pole Mount	Ceiling Mount	
PFB203W	PFB203W + PFA152-E	PFA106+ PFB220C	

### Dimensions (mm[inch])





