

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 AI 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

Face Capture

Face capture 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.

- · 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 (ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm, 6.0 mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50 m
- · Micro SD memory, IP67, IK10











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 ±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 Sp	ecification							Main Stream: 2688 × 1520 (1 fps–25/30 fps) 2560 × 1440 (1 fps–25/30 fps)
Camera						5 0.	1920 × 1080 (1 fps–50/60 fps)	
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS					Frame Rate	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		512 MB/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	Auto(ICR)/Color/B/W
Minimum Illumination		0.001 Lux@F1.6					BLC Mode	BLC/HLC/WDR (140 dB)
IR Distance		Distance up to 50 m (164 ft)					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR On/Off Control		Auto/Manual					Gain Control	Auto/Manual
IR LEDs		1						3D DNR
Lens							Noise Reduction	
Lens Type		Fixed					Motion Detetion	Off/On (4 Zone, Rectangle)
Mount Type		Board-in					Region of Interest	Off/On (4 Zone)
Focal Length		2.8 mm, 3.6 mm, 6.0 mm					Electronic Image Stabilization (EIS)	N/A
Max. Aperture		F1.6					Smart IR	Support
Angle of View		H: 113°, V: 60°/H: 89°, V: 48°/H: 56°, V: 31°					Defog	Support
Optical Zoom		N/A					Digital Zoom	N/A
Aperture Type	Aperture Type		Fixed				Flip	0°/90°/180°/270°
Close Focus Dista	Close Focus Distance		1.3 m (4.27 ft)/1.9 m (6.23 ft)/3.8 m (12.47 ft)				Mirror	Off/On
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	Off/On (4 Area, Rectangle)
	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)		Audio	
DORI Distance	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)		Compression	G.711a, G.711Mu, G.726, AAC, G.723
	6.0mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)		Network	
Pan/Tilt/Rotat	ion						Ethernet	RJ-45 (10/100 Base-T)
Pan/Tilt/Rotation	ų.	Pan: 0°-355°;	; Tilt: 0°–75°; F	Rotation: 0°–3	55°		Protocol	HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/v6, SNMP, QoS, UPnP, NTP, ICMP, HTTPS, IGMP, 802.1x
Artificial Intell	igence						Interoperability	ONVIF (Profile S/Profile G), CGI, Milstone, Genetec,
Face Capture		Support face image capture					, ,	P2P
Perimeter Protect	ion	Tripwire, Intrusion (Human & Vehicle classification)					Streaming Method	Unicast/Multicast
People Counting	People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection				Max. User Access	20 Users NAS
General Intelli	gence	detection, 4	areas mueper	ident detection	וונ		Edge Storage	FTP Micro SD card 256 GB
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access,Storage anomaly					Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
General Intelligence		Object Abandoned/Missing					Management Software	Smart PSS, DSS, P2P
Video							Smart Phone	iOS, Android
Compression		H.265+, H.265, H.264+, H.264, H.264B, H.264H, MJPEG (sub stream)					Certifications	
Streaming Capab	Streaming Capability		3 Streams				Certifications	CE-LVD: EN60950-1
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)						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

Pro Al Series | DH-IPC-HDBW5442R-ASE

Interface

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

Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<6.1W

Environmental

Operating Conditions	-30° C to +60° C (-22° F to +140° F)/10%RH-95%RH
Strorage 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	0.47 kg (1.04 lb)
Gross Weight	0.63 kg (1.39 lb)

Ordering Information Type Part Number Description DH-IPC-4MP WDR IR Dome AI Network Camera, HDBW5442RP-ASE WDR, PAL 4MP WDR IR Dome AI Network Camera, HDBW5442RN-ASE WDR, NTSC 4MP camera 4MP WDR IR Dome AI Network Camera, IPC-HDBW5442RP-WDR, PAL IPC-HDBW5442RN-4MP WDR IR Dome Al Network Camera, WDR, NTSC ASE 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

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
Wall Mount	Pole Mount	Ceiling Mount	
PFB203W	PFB203W + PFA152-E	PFA106+ PFB220C	

Dimensions (mm[inch])



