

DH-IPC-HDBW5442R-ASE-NI

4MP WDR Dome Al 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











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 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.

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.

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.



Technical Sn	ecification						Dit Data Control	CBR/VBR
Technical Specification						Bit Rate Control	H.264: 32 Kbps-8192 Kbps	
Camera		4/4 0// 114					Bit Rate	H.265: 19 Kbps-8192 Kbps
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS					Day/Night	Day/Night: Electronic Color/B/W
Effective Pixels		2688 (H) × 1520 (V)					BLC Mode	BLC/HLC/WDR (140 dB)
	RAM/ROM		1 GB/128 MB				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Scanning System		Progressive					Gain Control	Auto/Manual
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s					Noise Reduction	3D DNR
Minimum Illumination		0.0002Lux@ F1.0					Motion Detetion	Off/On (4 Zone, Rectangle)
Lens							Region of Interest	Off/On (4 Zone)
Lens Type		Fixed					Electronic Image Stabilization	N/A
Mount Type	Mount Type		Board-in				(EIS)	
Focal Length		3.6 mm					Defog	Support
Max. Aperture		F1.0					Digital Zoom	N/A
Angle of View		H: 93°, V: 50°					Flip	0°/90°/180°/270°
Optical Zoom		N/A					Mirror	Off/On
Aperture Type	Aperture Type		Fixed				Privacy Masking	Off/On (4 Area, Rectangle)
Close Focus Distance		2.0 m (6.56 ft)					Audio	
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Compression	G.711a, G.711Mu, G.726, AAC, G.723
DONI DISTAILCE	3.6mm	70 m (230 ft)	28 m (91 ft)	14m(46ft)	7m(23ft)		Network	
Pan/Tilt/Rotat	tion						Ethernet	RJ-45 (10/100 Base-T)
Pan/Tilt/Rotation	-	Pan: 0°-355°	Pan: 0°-355°; Tilt: 0°-75°; Rotation: 0°-355°				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	ligence						Interoperability	ONVIF (Profile S/Profile G), CGI, Milstone, Genetec,
Face Capture			image captur					P2P
Perimeter Protect	tion		usion (Humar		,		Streaming Method	Unicast/Multicast
People Counting		counting; Su	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent				Max. User Access	20 Users NAS
		detection, 4 areas independent detection					Edge Storage	FTP Micro SD card 256 GB
General Intelli Event Trigger	igence		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)
rvent migger							Management Software	Smart PSS, DSS, P2P
General Intelligence		Object Abandoned/Missing					Smart Phone	iOS, Android
Video							Certifications	
Compression		H.265+, H.265, H.264+, H.264, H.264B, H.264H, MJPEG (sub stream)					Certifications	CE-LVD: EN60950-1
Streaming Capability		3 Streams 2688 × 1520/2560 × 1440/2304 × 1296/1080P						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
Resolution		(1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/10 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)					Interface	32, 332, 3200530-1 CANY C3A (22.2 NO.00530-1-07
		Main Stream: 2688 × 1520 (1 fps–25/30 fps)					Video Interface	N/A
		2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps)				Audio Interface	1/1 channel In/Out	
Frame Rate		Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 fps)					RS485	N/A
		Third Stream: 1080P (1 fps–16 fps)					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	<4.4W

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	0.46 kg (1.01 lb)
Gross Weight	0.62 kg (1.37 lb)

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

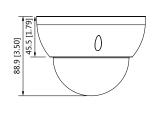
PFB220C Ceiling Mount

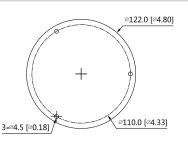


LR1002 ePoE Over Coax Converter

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])







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