

DH-IPC-HDBW5442R-S

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.

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.



Technical S _l	pecification						4M(2688×1520)/3M(2304×1296)/1080P(192
Camera					Resolution	0×1080)/1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)	
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS				Main Stream: 2688×1520(1~25/30fps)	
Effective Pixels		2688(H) x 1080(V)			Frame Rate	Sub Stream: D1(1~25/30fps)	
RAM/ROM		512MB/128MB					Third Stream: 1080P(1~11fps)
Scanning System		Progressive				Bit Rate Control	CBR/VBR
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					H.264: 32~ 8192Kbps
Minimum Illumination		0.001653Lux/F1.6 (Color,1/3s,30IRE) 0.01482Lux/F1.6 (Color,1/30s,30IRE)			Bit Rate	H.265: 19~ 8192Kbps	
		OLux/F1.6 (IR on) 2.8mm·Distance un to 26m (85ft)				Day/Night	Auto(ICR) / Color / B/W
IR Distance		2.8mm:Distance up to 26m (85ft) 3.6mm:Distance up to 34m (112ft) 6mm:Distance up to 51m (167ft)				BLC Mode	BLC / HLC / WDR(120dB)
IR On/Off Contr	rol	Auto/ Manual				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR LEDs		1				Gain Control	Auto/Manual
Lens		1			Noise Reduction	3D DNR	
		e l			Motion Detetion	Off / On (4 Zone, Rectangle)	
Lens Type		Fixed				Region of Interest	Off / On (4 Zone)
Mount Type Focal Length		Board-in				Electronic Image Stabilization (EIS)	Support
Max. Aperture		2.8mm,3.6mm,6mm				Smart IR	Support
		F1.6			Defog	Support	
Angle of View		H: 113°, V:60	H: 113°, V:60°/H: 89°, V:48°/H: 56°, V:31°			Digital Zoom	N/A
Optical Zoom		N/A				Flip	0°/90°/180°/270°
Aperture Type		Fixed	Fixed			Mirror	Off/On
Close Focus Dis	tance	1.3m(4.27ft)/1.9m(6.23ft)/3.8m(12.47ft)			-)	Privacy Masking	Off / On (4 Area, Rectangle)
	Lens	Detect	Observe	Recognize	Identify	Audio	
DORI	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)	Compression	N/A
Distance	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)	Network	
	6mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)	Ethernet	RJ-45 (10/100Base-T)
Pan/Tilt/Rotation	on Range	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
Artificial Intelligence		Tripuite letrucies/himsen 9 Validation				Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P
Perimeter Protection		Tripwire, Intrusion(Human & Vehicle classification)				Streaming Method	Unicast / Multicast
People Counting		Line crossing people counting, Region people counting, Loitering filter			Max. User Access	20 Users	
General Intelligence Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address			Edge Storage	NAS FTP Mirco SD card 256GB	
General Intelligence		conflict, Illegal Access,Storage anomaly Object Abandoned/Missing				Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
Video		,				Management Software	Smart PSS, DSS, P2P
Compression		H.265/H.264/H.264B/H.264H/MJPEG(sub stream)			ıb stream)	Smart Phone	iOS, Android
Streaming Capability		3 Streams				Certifications	
Streaming Capability		J Ju cams			Certifications		

Certifications	CE-LVD:EN60950-1 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
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Interface

Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC12V, PoE(802.3af)(Class 0)
Power Consumption	DC12V:2.4W 5.4W(IR on) PoF:2.8W 5.8W(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	0.45Kg (0.99lb)
Gross Weight	0.61Kg (1.34lb)

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









Junction box

PFB200C Inceiling Mount

PFA200W Rain Shade

PFA123 Junction box









PFB203W Wall Mount

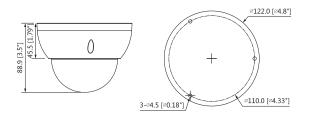
PFA152-E Pole Mount

PFA106 Mount Adapter

PFB220C Ceiling Mount

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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