

# 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 CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@2688×1520
- · WDR(120dB), Day/Night(ICR), 3D DNR, 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.



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recillical 3p	ecification						Main Stream: 2688×1520(1~25/30fps)
Camera						Frame Rate	Sub Stream: D1(1~25/30fps)
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS					Third Stream: 1080P(1~11fps)
Effective Pixels		2688(H) x 1520(V)				Bit Rate Control	CBR/VBR
RAM/ROM		512MB/128MB				Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 8192Kbps
Scanning System		Progressive				Day/Night	Auto(ICR) / Color / B/W
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				BLC Mode	BLC / HLC / WDR(120dB)
Minimum Illumination		0.0016Lux/F1.6 ( Color,1/3s,30IRE) 0.015Lux/F1.6 ( Color,1/30s,30IRE) 0Lux/F1.6 (IR on)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR Distance			' :o 51m (167ft)			Gain Control	Auto/Manual
IR On/Off Control		Auto/ Manual				Noise Reduction	3D DNR
IR LEDs		1				Motion Detetion	Off / On (4 Zone, Rectangle)
Lens						Region of Interest	Off / On (4 Zone)
Lens Type		Fixed				Electronic Image Stabilization (EIS)	N/A
Mount Type		Board-in				Smart IR	Support
Focal Length		2.8mm,3.6mm,6mm				Defog	Support
Max. Aperture		F1.6				Digital Zoom	N/A
Angle of View		H: 113°, V:60°/H: 89°, V:48°/H: 56°, V:31°				Flip	0°/90°/180°/270°
Optical Zoom		N/A				Mirror	Off / On
Aperture Type		Fixed				Privacy Masking	Off / On (4 Area, Rectangle)
Close Focus Distance		1.3m(4.27ft)/1.9m(6.23ft)/3.8m(12.47ft)			·)	Audio	
	Lens	Detect	Observe	Recognize	Identify	Compression	N/A
DORI	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)	Network	
Distance	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)	Ethernet	RJ-45 (10/100Base-T)
Pan/Tilt/Rotat	6mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)	Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMI
Pan/Tilt/Rotatio		Donio°x2FF°.	T:1+.0°~7F°. D	atation.0°~2FI	- •		UPnP;NTP ONVIF(Profile S/Profile G),
		Pan:0 **355 ;	Tilt:0°~75°; Ro	otation:0 ~35:		Interoperability	CGI,Milstone,Genetec,P2P
Artificial Intell		<b>+</b> · · · · ·		0.1.1.1		Streaming Method	Unicast / Multicast
Perimeter Protect	cion		usion(Human			Max. User Access	20 Users
People Counting  General Intelli	igence	Line crossing people counting, Region people counting				Edge Storage	NAS FTP Mirco SD card 256GB
General Intelligence  Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address				Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
		conflict, Illeg	al Access,Stor	age anomaly		Management Software	Smart PSS, DSS, P2P
General Intellige	nce	Object Aband	doned/Missin	g		Smart Phone	iOS, Android
Video		11.205 - /11.20	E/II 264 - /II 2	C4/IL2C45/::	26411/	Certifications	
Compression		H.265+/H.265/H.264+/H.264/H.264B/H.264H/ MJPEG(sub stream)					CE-LVD:EN60950-1
Streaming Capability  Resolution			2304×1296/10 20P(1280×720			Certifications	CE-EMC:Electromagnetic Compatibility Direc 2014/30/EU FCC:47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1

#### Interface

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

#### Electrical

Power Supply	DC12V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:2.4W 5.4W(IR on) PoE: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
Dimensions	Ф122mm×88.9mm (4.80"×3.50")
Net Weight	0.45Kg (0.99lb)
Gross Weight	0.61Kg (1.34lb)

## Accessories

#### **Optional:**











PFA200W PFA123 Rain Shade Junction box



Junction box





PFA152-E Pole Mount



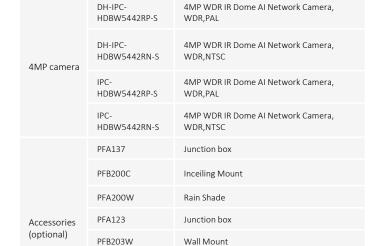
PFA106 Mount Adapter



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	

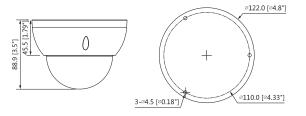
# Ordering Information Type Part Number Description Dimensions (mm/inch)



Pole Mount

Mount Adapter

Ceiling Mount





PFA152-E

PFA106

PFB220C