

# DH-IPC-HDW5241H-AS-PV

2MP WDR IR Eyeball AI 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 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.

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · 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)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 40m
- · Micro SD memory, IP67











#### Active Deterrence

Active deterrence is to warn off intruders actively with white light and siren even before users are aware of the incidence. Once an intursion is detected, the white light will turn on and the siren will buzzer to alert the intruder. The white light can be set to Normally on or Flash, the content of siren is configurable.

#### Protection(IP67, 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) , the camera is the choice for installation in even the most unforgiving environments.



Technical Sp	ecification							Main Stream: 1080P(1~25/30fps)
Camera							Frame Rate	Sub Stream: D1(1~25/30fps)
Image Sensor		1/2 8" 2Meg	1/2 0" 2Maganizal progressive soon CTADVICIN CMAC					Third Stream: 1080P(1~6fps)
			1/2.8" 2Megapixel progressive scan STARVIS™ CMOS				Bit Rate Control	CBR/VBR
Effective Pixels			1920(H) x 1080(V)				Bit Rate	H.264: 32~8192Kbps H.265: 19~7424Kbps
RAM/ROM			512MB/128MB				Day/Night	Auto(ICR) / Color / B/W
Scanning System			Progressive				BLC Mode	BLC / HLC / WDR(120dB)
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Minimum Illumination		0.002Lux/F1.6 ( Color,1/3s,30IRE) 0.012Lux/F1.6 ( Color,1/30s,30IRE) 0Lux/F1.6(IR on)				Gain Control	Auto/Manual	
R Distance		Distance up	Distance up to 40m (131ft)				Noise Reduction	3D DNR
IR On/Off Contro	ol .	Auto/ Manua	al				Motion Detetion	Off / On (4 Zone, Rectangle)
R LEDs		1 IR, 1 LED					Region of Interest	Off / On (4 Zone)
_ens							Electronic Image Stabilization (EIS)	N/A
Lens Type		Fixed	Fixed				Smart IR	Support
Mount Type		Board-in					Defog	Support
Focal Length		2.8mm,3.6m	2.8mm,3.6mm,6.0mm				Digital Zoom	N/A
Max. Aperture		F1.6	F1.6				Flip	0°/90°/180°/270°
Angle of View		H: 106°, V:57	H: 106°, V:57°/H: 87°, V:46°/H: 53°, V:30°				Mirror	Off / On
Optical Zoom		N/A	N/A				Privacy Masking	Off / On (4 Area, Rectangle)
Aperture Type		Fixed	Fixed				Audio	on y on (17 near) nearth grey
Close Focus Dista	ance	0.6m(1.97ft)	0.6m(1.97ft)/1.2m(3.94ft)/2.5m(8.20ft)					0.744 10.74414 10.73614 4010.733
	Lens	Detect	Observe	Recognize	Identify		Compression	G.711a/G.711Mu/G.726/AAC/G.723
	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)		Network	
DORI Distance	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)		Ethernet	RJ-45 (10/100Base-T)
	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)		Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMT FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNM UPnP;NTP
Pan/Tilt/Rotat	ion						International like	ONVIF(Profile S/Profile G),
Pan/Tilt/Rotation	n Range	Pan:0°~360°;	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°				Interoperability	CGI,Milstone,Genetec,P2P
Artificial Intell	igence						Streaming Method	Unicast / Multicast
Perimeter Protec	ction	Tripwire, Intr	Tripwire, Intrusion(Human & Vehicle classification)				Max. User Access	20 Users
People Counting		Line crossing counting	Line crossing people counting, Region people counting				Edge Storage	NAS FTP Mirco SD card 256GB
General Intelligence		ene		Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12			
Event Trigger		changing, Ne	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Management Software	Smart PSS, DSS, P2P
General Intelligence Ob		Object Aban	Object Abandoned/Missing				Smart Phone	iOS, Android
√ideo							Certifications	
Compression		H.265+/H.265/H.264+/H.264/H.264B/H.264H/ MJPEG(sub stream)			.264H/			CE-LVD:EN60950-1
Streaming Capability		3 Streams					Certifications	CE-EMC:Electromagnetic Compatibility Directi 2014/30/EU FCC:47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Resolution		1080P(1920×1080)/1.3M(1280×960)/720P(128 0×720)/D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)						

## Interface

Video Interface	N/A
Audio Interface	1/1 channel In/Out,Built-in MIC,Built-in Speaker
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC

## Electrical

Power Supply	DC12V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:2W 7.9W(IR on) PoE:2.6W 9.4W(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

## Construction

Casing	Metal,plastic
Dimensions	Ф122mm×113.5mm (4.80"×4.47")
Net Weight	0.49Kg (1.08lb)
Gross Weight	0.65Kg (1.43lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HDW5241HP- AS-PV	2MP WDR IR Eyeball AI Network Camera, WDR,PAL		
2MP camera	DH-IPC- HDW5241HN- AS-PV	2MP WDR IR Eyeball AI Network Camera, WDR,NTSC		
	IPC-HDW5241HP- AS-PV	2MP WDR IR Eyeball AI Network Camera, WDR,PAL		
	IPC-HDW5241HN- AS-PV	2MP WDR IR Eyeball Al Network Camera, WDR,NTSC		
	PFA130-E	Junction box		
	PFA151	Corner Mount		
Accessories	PFB203W	Wall Mount		
(optional)	PFA106	Mount Adapter		
	PFB220C	Ceiling Mount		
	PFA152-E	Pole Mount		

# Accessories

# **Optional:**









PFA130-E Junction box

PFA151 Corner Mount

PFB203W Wall Mount

PFA106 Mount Adapter







Ceiling Mount	Pole Mount
Junction Mour	זר

Junction Mount	Corner Mount
PFA130-E	PFA151+PFB203W
Wall Mount	Ceiling Mount
PFB203W	PFA106+PFB220C
Ceiling Mount	Pole Mount
	PFB203W + PFA152-E

# Dimensions (mm/inch)





