

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.

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
- \cdot H.265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- \cdot 2.8mm fixed lens (3.6mm, 6mm optional)
- \cdot 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.



Pro Al Series | DH-IPC-HDW5241H-AS-PV

Technical Specification

Camera

Streaming Capability

Resolution

Camera						
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS				
Effective Pixels		1920(H) x 1080(V)				
RAM/ROM		512MB/128N	512MB/128MB			
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				
Minimum Illumination		0.002103Lux/F1.6 (Color,1/3s,30IRE) 0.01232Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)				
IR Distance		2.8mm:Distance up to 20m (66ft) 3.6mm:Distance up to 30m (98ft) 6mm:Distance up to 40m (131ft)				
IR On/Off Control		Auto/ Manual				
IR LEDs		1 IR, 1 LED				
Lens						
Lens Type		Fixed	Fixed			
Mount Type		Board-in	Board-in			
Focal Length		2.8mm,3.6mm,6.0mm				
Max. Aperture		F1.6				
Angle of View		H: 106°, V:57°/H: 87°, V:46°/H: 53°, V:30°				
Optical Zoom		N/A	N/A			
Aperture Type		Fixed	Fixed			
Close Focus Distance		0.6m(1.97ft)/1.2m(3.94ft)/2.5m(8.20ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	
DOM Distance	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	
	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	
Pan/Tilt/Rotat	ion					
Pan/Tilt/Rotation Range		Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°				
Artificial Intell	igence					
Perimeter Protection		Tripwire, Intrusion(Human & Vehicle classification)				
People Counting		Line crossing people counting, Region people counting,Loitering filter				
General Intelli	gence					
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				
General Intelligence		Object Abandoned/Missing				
Video						
Compression		H.265/H.264/H.264H/H.264B/MJPEG(sub stream)				

3 Streams

1080P(1920×1080)/1.3M(1280×960)/720P(128 0×720)/D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)

	Main Stream: 1080P(1~25/30ps)		
Frame Rate	Sub Stream: D1(1~25/30fps)		
	Third Stream: 1080P(1~6fps)		
Bit Rate Control	CBR/VBR		
Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 7424Kbps		
Day/Night	Auto(ICR) / Color / B/W		
BLC Mode	BLC / HLC / WDR(120dB)		
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual		
Gain Control	Auto/Manual		
Noise Reduction	3D DNR		
Motion Detetion	Off / On (4 Zone, Rectangle)		
Region of Interest	Off / On (4 Zone)		
Electronic Image Stabilization (EIS)	N/A		
Smart IR	Support		
Defog	Support		
Digital Zoom	N/A		
Flip	0°/90°/180°/270°		
Mirror	Off / On		
Privacy Masking	Off / On (4 Area, Rectangle)		
Audio			
Compression	G.711a/G.711Mu/G.726/AAC/G.723		
Network			
Ethernet	RJ-45 (10/100Base-T)		
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP;SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP;QoS; UPnP;NTP		
Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P		
Streaming Method	Unicast / Multicast		
Max. User Access	20 Users		
Edge Storage	NAS FTP Mirco SD card 256GB		
Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)		
Management Software	Smart PSS, DSS, P2P		
Smart Phone	iOS, Android		
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	1/1 channel In/Out	
Electrical		
Power Supply	DC12V, 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~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)	

Optional:

PFA130-E

Junction box

PFB220C

Accessories





Wall Mount

Corner Mount

PFA151+PFB203W



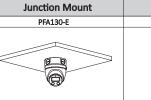
PFA106 Mount Adapter



PFA152-E

Corner Mount

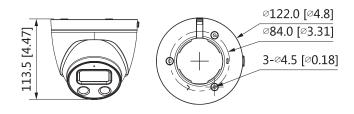
Ceiling Mount Pole Mount



Wall Mount **Ceiling Mount** PFA106+PFB220C PFB203W

Ceiling Mount	Pole Mount	
	PFB203W + PFA152-E	

Dimensions (mm/inch)





Ordering Information Part Number Туре Description DH-IPC-2MP WDR IR Eyeball AI Network Camera, HDW5241HP-WDR,PAL AS-PV DH-IPC-2MP WDR IR Eyeball AI Network Camera, 2M

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