

DH-IPC-HDW5241H-AS-PV

2MP WDR IR Eyeball AI Network Camera



System Overview

Pro AI series contains Face Detection, 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
- · 25/30 fps@1080P (1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm, 6 mm optional)
- \cdot 1/1 Alarm in/out, 1/1 audio in/out (Built-in MIC, Built-in Speaker)
- \cdot Max. IR LEDs Length 50 m
- · 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

Camera					
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS			
Effective Pixels		1920 (H) × 1080 (V)			
RAM/ROM		512 MB/128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s			
Minimum Illumination		0.002 Lux@F1.6			
IR Distance		Distance up to 50 m (164 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs		1 IR, 1 LED			
Lens					
Lens Type		Fixed-focal			
Mount Type		Board-in			
Focal Length		2.8 mm, 3.6 mm, 6.0 mm			
Max. Aperture		F1.6			
Angle of View		H: 106°, V: 57°/H: 87°, V: 46°/H: 53°, V: 30°			
Aperture Type		Fixed			
Close Focus Dist	ance	0.6 m (1.97 ft)/1.2 m(3.94 ft)/2.5 m(8.20 ft)			
	Lens	Detect	Observe	Recognize	Identify
	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)
DORI Distance	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)
	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)
Pan/Tilt/Rotation					
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–78°; Rotation: 0°–360°			
Artificial Intelligence					
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering			
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection			
General Intell	gence				
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly			
General Intelligence		Object Abandoned/Missing			
Heat Map		Yes			
Video					
Compression		H.265,H.264,H.264B,H.264H, MJPEG (sub stream)			
Smart Codec		Yes			
Streaming Capability		3 Streams			

Resolution	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)	
	Main Stream: 1080P (1 fps-25/30 fps)	
Frame Rate	Sub Stream: D1 (1 fps-25/30 fps)	
	Third Stream: 1080P (1 fps-6 fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–7424 Kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC Mode	BLC/HLC/WDR (120 dB)	
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Gain Control	Auto/Manual	
Noise Reduction	3D DNR	
Motion Detection	Off/On (4 Zone, Rectangle)	
Region of Interest	Off/On (4 Zone)	
Electronic Image Stabilization (EIS)	N/A	
Smart IR	Yes	
Defog	Yes	
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 (10/100 Base-T)	
Protocol	IPv4;IPv6;HTTP;HTTPs;TCP;UDP;ARP;RTP;RTSP;RTCP ;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP ;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP	
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P	
Streaming Method	Unicast/Multicast	
Max. User Access	20 Users	
Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB	
Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)	
Management Software	Smart PSS, DSS, DMSS	
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

Audio Interface	1/1 channel In/Out, Built-in MIC, Built-in Speaker
RS485	N/A
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	<7W
Environmental	
Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH
Storage Conditions	-30° C to +60° C (-22° F to +140° F)
Ingress Protection	IP67
Construction	
Casing	Metal, plastic
Dimensions	Φ122 mm × 113.5 mm (4.80" × 4.47")
Net Weight	0.49 kg (1.08 lb)
Gross Weight	0.65 kg (1.43 lb)

Ordering Information

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

Accessories

PFA130-E

Junction box

PFB220C

Optional:





Wall Mount



PFA106 Mount Adapter

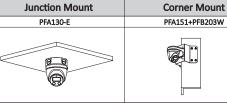


PFA151

Corner Mount

Ceiling Mount

PFA152-E Pole Mount

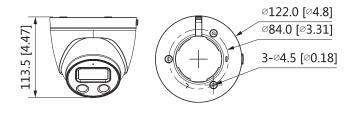


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Wall Mount **Ceiling Mount** PFA106+PFB220C PFB203W

Ceiling Mount	Pole Mount	
	PFB203W + PFA152-E	

Dimensions (mm[inch])





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