

DH-IPC-HDW5541H-AS-PV

5MP 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.

- · 1/2.7" 5Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- · 20 fps@2592 × 1944, 50/60 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, 6.0 mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out (Built-in MIC, Built-in Speaker)
- · 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-HDW5541H-AS-PV

Technical Specification

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Camera					
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS			
Effective Pixels		2592 (H) × 1944 (V)			
RAM/ROM		512 MB/128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s			
Minimum Illumination		0.005 Lux@F1.6			
IR Distance		Distance up to 50 m (164ft)			
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: 102°, V: 71°/H: 84°, V: 58°/H: 51°, V: 37°			
Aperture Type		Fixed			
Close Focus Distance		0.9 m (2.95 ft)/1.6 m (5.25 ft)/3.1 m (10.17 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)
DONIDIStance	3.6mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)
	6.0mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)
Pan/Tilt/Rota	tion				
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–78°; Rotation: 0°–360°			
Artificial Intel	ligence				
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	igence				
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	2592 × 1944/2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)		
	Main Stream: 2592 × 1944 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)		
Frame Rate	Sub Stream: D1 (1 fps–20/30 fps) D1 (1 fps–50 fps)		
	Third Stream: 1080P (1 fps-17 fps)		
Bit Rate Control	CBR/VBR		
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 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		

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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			
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	<7.2W			

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

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Туре	Part Number	Description	
5MP camera	DH-IPC- HDW5541HP- AS-PV	5MP WDR IR Eyeball AI Network Camera, WDR, PAL	
	DH-IPC- HDW5541HN- AS-PV	5MP WDR IR Eyeball AI Network Camera, WDR, NTSC	
	IPC-HDW5541HP- AS-PV	5MP WDR IR Eyeball Al Network Camera, WDR, PAL	
	IPC-HDW5541HN- AS-PV	5MP WDR IR Eyeball Al 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	



PFA130-E

Junction box

Optional:





PFA151

Corner Mount



Wall Mount



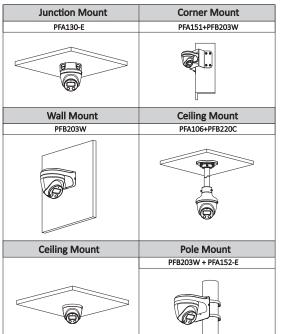
PFA106 Mount Adapter



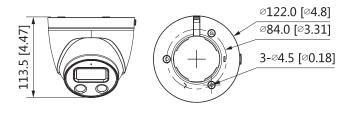


PFB220C Ceiling Mount

PFA152-E Pole Mount



Dimensions (mm[inch])





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