

# DH-IPC-HFW5541T-AS-PV

5MP WDR IR Bullet AI Network Camera



- · 1/2.7" 5Megapixel progressive scan CMOS
- $\cdot$  H.265 & H.264 triple-stream encoding
- · 20 fps@2592 × 1944, 50/60 fps@1080 (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, 8.0 mm optional)
- $\cdot$  1/1 Alarm in/out, 1/1 audio in/out (Built-in Speaker)
- · Max. IR LEDs Length 60 m
- · Micro SD memory, IP67



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.

#### 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-HFW5541T-AS-PV

#### **Technical Specification**

#### Camera

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 60 m (197 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs		2 IRs, 1 LED			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8 mm, 3.6 mm, 6.0 mm, 8.0 mm			
Max. Aperture		F1.6			
Angle of View		H: 102°, V: 71°/H: 84°, V: 58°/H: 51°, V: 37°/H: 38°, V: 28°			
Optical Zoom		N/A			
Aperture Type		Fixed			
Close Focus Distance		0.9 m (2.95 ft)/1.6 m (5.25 ft)/3.1 m (10.17 ft)/4.5 m (14.73 ft)			
	Lens	Detect	Observe	Recognize	Identify
	2.8mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)
DORI Distance	3.6mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)
	6mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)
	8mm	160m(525ft)	64m(210ft)	32m(105ft)	16m(52ft)
	Pan/Tilt/Rotation				
Pan/Tilt/Rotat	tion				

Pan/Tilt/Rotation Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°	
Artificial Intelligence		
Perimeter Protection	Tripwire, Intrusion(Human & Vehicle classification)	
People Counting	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	
General Intelligence		

#### Motion detection, Video tampering , Scene Event Trigger changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly General Intelligence Object Abandoned/Missing Video H.265+, H.265, H.264+, H.264, H.264B, H.264H, Compression MJPEG (sub stream) Streaming Capability 3 Streams 2592 × 1944/2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P Resolution (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 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 (10/100 Base-T)		
Protocol	HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/v6, SNMP, QoS, UPnP, NTP, ICMP, HTTPS, IGMP, 802.1x		
Interoperability	ONVIF (Profile S/Profile G), CGI, Milstone, Genetec, P2P		
Streaming Method	Unicast/Multicast		
Max. User Access	20 Users		
Edge Storage	NAS FTP 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, 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		

## Pro Al Series | DH-IPC-HFW5541T-AS-PV

#### Interface

**Ordering Information** 

Туре

5MP camera

Accessories

(optional)

Part Number

HFW5541TP-AS-PV

HFW5541TN-AS-PV

IPC-HFW5541TP-

IPC-HFW5541TN-

DH-IPC-

DH-IPC-

AS-PV

AS-PV

PFA130-E

PFA152-E

PFA151

Video Interface	N/A		
Audio Interface	1/1 channel In/Out, 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	<8.5W		
Environmental			
Operating Conditions	-30° C to +60° C (-22° F to +140° F)/10%RH-95%RH		
Strorage Conditions	-30° C to +60° C (-22° F to +140° F)		
Ingress Protection	IP67		
Vandal Resistance	N/A		
Construction			
Casing	Metal		
Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99")		
Net Weight	0.815 kg (1.80 lb)		
Gross Weight	1.08 kg (2.38 lb)		

Description

WDR, PAL

WDR, NTSC

WDR, PAL

WDR, NTSC

Junction box

Pole Mount

Corner Mount

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#### Accessories

#### **Optional:**





PFA152-E

Pole Mount

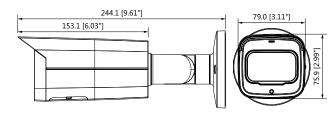


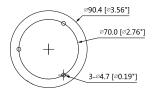
PFA130-E Junction box

PFA151 Corner Mount

Junction Mount	Pole Mount	Corner Mount	
PFA130-E	PFA130-E+ PFA152-E	PFA130-E + PFA151	

### Dimensions (mm[inch])







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