

DH-IPC-HFW5541T-AS-PV

5MP WDR IR Bullet 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.

- · 1/2.7" 5Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 20fps@2592×1944
- · WDR(120dB), Day/Night(ICR), 3D DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm, 6mm, 8mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50m
- · 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-HFW5541T-AS-PV

Technical Specification

Streaming Capability

Resolution

Camera					
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS			
Effective Pixels		2592(H) x 1944(V)			
RAM/ROM		512MB/128MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.0048Lux/F1.6 (Color,1/3s,30IRE) 0.043Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6 (IR on)			
IR Distance		Distance up to 52m (115ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		3			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8mm,3.6mm,6mm,8mm			
Max. Aperture		F1.6(2.8mm~6mm),F2.0(8mm)			
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		0.9m(2.95ft)/1.6m(5.25ft)/3.1m(10.17ft)/4.5m(1 4.73ft)			
	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/Rotati	on				
Pan/Tilt/Rotation Range		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°			
Artificial Intelli	gence				
Perimeter Protection		Tripwire, Intrusion(Human & Vehicle classification)			
People Counting		Line crossing people counting, Region people counting,Loitering filter			
General Intellig	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.265/H.264+/H.264/H.264B/H.264H/ MJPEG(sub stream)			

3 Streams

2592×1944/2688×1520/2304×1296/1080P(1920×1080)/1.3M(1280×960)/720P(1280×7 20)/D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)

	Main Stream: 2592×1944(1~20fps)			
Frame Rate	Sub Stream: D1(1~20/30fps)			
	Third Stream: 1080P(1~13fps)			
Bit Rate Control	CBR/VBR			
Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 8192Kbps			
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/ AAC/ G.726/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			

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			
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:2.1W 7.2W(IR on) PoE:2.7W 8.5W(IR on)			
Environmental				
Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / 10%RH~95% RH			
Strorage Conditions	+5° C $^{\rm o}$ +40° C (+41° F $^{\rm o}$ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH~95% RH			
Ingress Protection	IP67			
Vandal Resistance	N/A			
Construction				
Casing	Metal			
Dimensions	244.1mm×79.0mm×75.9mm (9.61"×3.11"×2.99")			
Net Weight	0.815Kg (1.80lb)			
Gross Weight	1.08Kg (2.38lb)			

Description

WDR,PAL

WDR,NTSC

WDR,PAL

WDR,NTSC

Junction box

Pole Mount

Corner Mount

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Accessories

Optional:



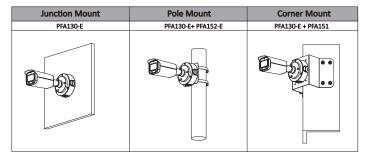




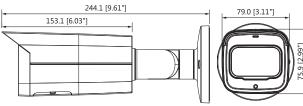
Junction box

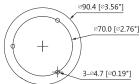
PFA152-E Pole Mount

PFA151 Corner Mount

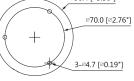


Dimensions (mm/inch)











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