

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

5MP WDR IR Bullet AI Network Camera,

Accessories

Optional:



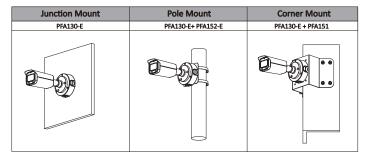




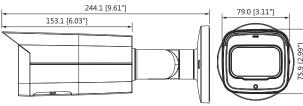
Junction box

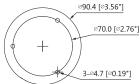
PFA152-E Pole Mount

PFA151 Corner Mount

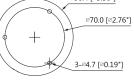


Dimensions (mm/inch)











Rev 001.001 © 2017 Dahua. All rights reserved. Design and specifications are subject to change without notice.