

# 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 Al 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.

- · 1/2.7" 5Megapixel progressive scan CMOS
- · 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
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm, 6.0 mm, 8.0 mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out (Built-in Speaker)
- · Max. IR LEDs Length 60 m
- · Micro SD memory, IP67









## **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.



Technical Sp	ecification							Main Stream: 2592 × 1944 (1 fps–20 fps)
Camera								2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps)
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS					Frame Rate	Sub Stream: D1 (1 fps–20/30 fps) D1 (1 fps–50 fps)
Effective Pixels		2592 (H) × 1944 (V)						Third Stream: 1080P (1 fps–17 fps)
RAM/ROM		512 MB/128 MB					Bit Rate Control	CBR/VBR
Scanning System		Progressive					Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s					Day/Night	Auto(ICR)/Color/B/W
Minimum Illumination		0.005 Lux@F1.6					BLC Mode	BLC/HLC/WDR (120 dB)
IR Distance		Distance up to 60 m (197 ft)					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR On/Off Control		Auto/Manual						
IR LEDs		3					Gain Control	Auto/Manual
Lens							Noise Reduction	3D DNR
Lens Type		Fixed	Fixed				Motion Detetion	Off/On (4 Zone, Rectangle)
Mount Type		Board-in					Region of Interest	Off/On (4 Zone)
Focal Length			2.8 mm, 3.6 mm, 6.0 mm, 8.0 mm				Electronic Image Stabilization (EIS)	N/A
Max. Aperture		F1.6					Smart IR	Support
Angle of View		H: 102°, V: 71°/H: 84°, V: 58°/H: 51°, V: 37°/H: 38°,					Defog	Support
Optical Zoom		V: 28° N/A					Digital Zoom	N/A
Aperture Type		Fixed					Flip	0°/90°/180°/270°
Close Focus Distance		0.9 m (2.95 fr m (14.73 ft)	0.9 m (2.95 ft)/1.6 m (5.25 ft)/3.1 m (10.17 ft)/4.5 m (14.73 ft)				Mirror	Off/On
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	Off/On (4 Area, Rectangle)
	2.8mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)		Audio	
DORI Distance	3.6mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)		Compression	G.711a, G.711Mu, G.726, AAC, G.723
	6mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)		Network	
	8mm	160m(525ft)	64m(210ft)	32m(105ft)	16m(52ft)		Ethernet	RJ-45 (10/100 Base-T)
Pan/Tilt/Rotat	tion							HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP,
Pan/Tilt/Rotation	n Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				Protocol	FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, SNMP, QoS, UPnP, NTP, ICMP, HTTPS, IGMP, 802.1x	
Artificial Intell	igence						Interoperability	ONVIF (Profile S/Profile G), CGI, Milstone, Genetec, P2P
Perimeter Protec	ction		usion(Human				Streaming Method	Unicast/Multicast
People Counting		counting; Su	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent				Max. User Access	20 Users
General Intelli	gence	detection, 4	detection, 4 areas independent detection				Edge Storage	NAS FTP
-			Motion detection, Video tampering , Scene				0	Micro SD card 256 GB
Event Trigger		changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly					Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
General Intelligence		Object Abandoned/Missing					Management Software	Smart PSS, DSS, P2P
Video							Smart Phone	iOS, Android
Compression		H.265+, H.265, H.264+, H.264, H.264B, H.264H, MJPEG (sub stream)					Certifications	
Streaming Capability		3 Streams						CE-LVD: EN60950-1
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)					Certifications	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

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)

#### **Ordering Information** Part Number Description Туре DH-IPC-5MP WDR IR Bullet AI Network Camera, HFW5541TP-AS-PV WDR, PAL DH-IPC-5MP WDR IR Bullet AI Network Camera, HFW5541TN-AS-PV WDR, NTSC 5MP camera IPC-HFW5541TP-5MP WDR IR Bullet AI Network Camera, AS-PV WDR, PAL IPC-HFW5541TN-5MP WDR IR Bullet AI Network Camera, AS-PV WDR, NTSC PFA130-E Junction box Accessories PFA152-E Pole Mount (optional) PFA151 Corner Mount

## Accessories

## **Optional:**







PFA152-E Pole Mount



PFA151 Corner Mount

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

## Dimensions (mm[inch])





