

DH-IPC-HFW5541T-AS-PV

5MP WDR IR Bullet AI Network Camera



System Overview

Pro Al 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
- · 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









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					-		2592 × 1944/2688 × 1520/2560 × 1440/2304 ×
Camera							Resolution	1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 ×
Image Sensor		1/2.7" 5Mega	1/2.7" 5Megapixel progressive scan CMOS					480)/CIF (352 × 288/352 × 240)
Effective Pixels		2592 (H) × 1944 (V)					Frame Rate	Main Stream: 2592 × 1944 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
RAM/ROM		512 MB/128 MB						Sub Stream: D1 (1 fps-20/30 fps)
Scanning System		Progressive						D1 (1 fps-50 fps)
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s						Third Stream: 1080P (1 fps–17 fps)
Minimum Illumination		0.005 Lux@F1.6					Bit Rate Control	CBR/VBR
IR Distance		Distance up to 60 m (197 ft)					Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
IR On/Off Contro	ol	Auto/Manual					Day/Night	Auto(ICR)/Color/B/W
IR LEDs		2 IRs, 1 LED						
Lens							BLC Mode	BLC/HLC/WDR (120 dB)
Lens Type		Fixed-focal					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Mount Type		Board-in	Board-in				Gain Control	Auto/Manual
Focal Length		2.8 mm, 3.6 i	mm, 6.0 mm, 8	8.0 mm			Noise Reduction	3D DNR
Max. Aperture		F1.6					Motion Detection	Off/On (4 Zone, Rectangle)
		H: 102°, V: 71°/H: 84°, V: 58°/H: 51°, V: 37°/H: 38°,					Region of Interest	Off/On (4 Zone)
Angle of View Aperture Type		V: 28° Fixed					Electronic Image Stabilization (EIS)	N/A
Close Focus Dist	ance	0.9 m (2.95 ft)/1.6 m (5.25 ft)/3.1 m (10.17 ft)/4.5 m (14.73 ft)				Smart IR	Yes	
	Lens	Detect	Observe	Recognize	Identify		Defog	Yes
	2.8mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)		Flip	0°/90°/180°/270°
DORI Distance	3.6mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)		Mirror	Off/On
	6mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)		Privacy Masking	Off/On (4 Area, Rectangle)
	8mm	160m(525ft)	64m(210ft)	32m(105ft)	16m(52ft)		Audio	
Pan/Tilt/Rota	tion						Compression	G.711a, G.711Mu, G.726, AAC, G.723
Pan/Tilt/Rotatio	n Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				Network		
Artificial Intel	ligence					Ethernet	RJ-45 (10/100 Base-T)	
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering					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
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection					Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
General Intelligence			Streaming Method	Unicast/Multicast				
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly					Max. User Access	20 Users
General Intelligence		Object Abandoned/Missing					Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB
Heat Map		Yes						INICIO DE CAITA 200 OD
Video							Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Compression		H.265,H.264,H.264B,H.264H, MJPEG (sub stream)					Management Software	Smart PSS, DSS, DMSS
Smart Codec		Yes					Smart Phone	iOS, Android
Streaming Capability 3 Streams						Certifications		

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

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 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)/Less than 95% RH
Storage 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				
Туре	Part Number	Description		
	DH-IPC- HFW5541TP-AS-PV	5MP WDR IR Bullet AI Network Camera, WDR, PAL		
5MP camera	DH-IPC- HFW5541TN-AS-PV	5MP WDR IR Bullet AI Network Camera, WDR, NTSC		
	IPC-HFW5541TP- AS-PV	5MP WDR IR Bullet AI Network Camera, WDR, PAL		
	IPC-HFW5541TN- AS-PV	5MP WDR IR Bullet AI Network Camera, WDR, NTSC		
	PFA130-E	Junction box		
Accessories (optional)	PFA152-E	Pole Mount		
, , ,	PFA151	Corner Mount		

Accessories

Optional:









PFA130-E Junction box

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])





