

DH-IPC-HFW5541T-ASE

5MP Pro Al IR Bullet Network Camera





System Overview

Pro AI series contains Face Detection, Perimeter Protection and People Counting functions. Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Active Deterrence and Full Color camera are also in this series. Meanwhile, the series features starlight and smart IR technology. This series fully protected from dust and water, certified to IP67 standard.

Functions

Face Detection

Face Detection is a software application that automatically captures faces from within a digital image or a video frame from a video source. Dahua cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

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, WB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- \cdot 2.8 mm fixed lens (3.6 mm, 6.0 mm, 8.0 mm, 12.0 mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 80 m
- · Micro SD memory, IP67, K10











ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAMS coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Protection(IP67, IK10, wide voltage)

The camera allows for ±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) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.



Technical Specification						Video		
Camera				Compression	H.265,H.264,H.264B,H.264H, MJPEG (sub stream)			
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS					Smart Codec	Yes
Effective Pixels		2592 (H) × 1944 (V)			Streaming Capability		3 Streams	
RAM/ROM Scanning System		512 MB/128 MB Progressive					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 ×
Electronic Shutter Speed		Auto/Manual, 1/3 s=1/100000 s						480)/CIF (352 × 288/352 × 240) Main Stream: 2592 × 1944 (1 fps–20 fps)
Minimum Illumination		0.005 Lux@F1.6						2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
IR Distance		Distance up to 80 m (262 ft)					Frame Rate	Sub Stream: D1 (1 fps–20/30 fps) D1 (1 fps–50 fps)
IR On/Off Control		Auto/Manual						Third Stream: 1080P (1 fps–17 fps)
IR LEDs		4				В	Bit Rate Control	CBR/VBR
Lens						Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps	
Lens Type		Fixed-focal					Day/Night	Auto(ICR)/Color/B/W
Mount Type		Board-in				BLC Mode	BLC/HLC/WDR (120 dB)	
Focal Length		2.8 mm, 3.6 mm, 6.0 mm, 8.0 mm, 12.0 mm				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Max. Aperture		F1.6 (2.8 mm-8.0 mm), F2.0 (12.0 mm)			Gain Control Noise Reduction Motion Detection	Gain Control	Auto/Manual	
Angle of View		H: 102°, V: 71°/H: 84°, V: 58°/H: 51°, V: 37°/ H: 38°, V:28°/H: 25°, V:18°				Noise Reduction	3D DNR	
Aperture Type	Fixed			Off/On (4 Zone, Rectangle)				
Close Focus Distance 0.9 m (2.95 ft)/1.6 m ((14.73 ft)/10.3 m (33.3)			n (5.25 ft)/3.1 m (10.17 ft)/4.5 m		"Se	Region of Interest	Off/On (4 Zone)	
	Lens	Detect	Observe	Recognize	Identify	S.	Electronic Image Stabilization (EIS)	N/A
2	2.8mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)		Smart IR	Yes
	3.6mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)		Defog	Yes
DORI Distance	6mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)		Flip	0°/90°/180°/270°
	8mm	160m(525ft)	64m(210ft)	32m(105ft)	16m(52ft)		Mirror	Off/On
á	12mm	240m(787ft)	96m(315ft)	48m(157ft)	24m(79ft)		Privacy Masking	Off/On (4 Area, Rectangle)
Pan/Tilt/Rotation							Audio	
Pan/Tilt/Rotation Ran	nge	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°					Compression	G.711a, G.711Mu, G.726, AAC, G.723
Artificial Intelligen	ice						Network	
Face Detection		Support face image capture				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
		Support Line crossing/Region/Queueing people			ı	Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P	
People Counting		counting; Support 4 accesses independent detection, 4 areas independent detection				Streaming Method	Unicast/Multicast	
General Intelligence				Max. User Access	20 Users			
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly					Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB
General Intelligence		Object Abandoned/Missing					Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Heat Map	Heat Map		Yes				Management Software	Smart PSS, DSS, DMSS

Pro Al Series | DH-IPC-HFW5541T-ASE

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	

Interface

Audio Interface	1/1 channel In/Out
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	<9.5W

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	IK10

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-ASE	5MP Pro Al IR Bullet Network Camera, WDR, PAL		
5MP camera	DH-IPC- HFW5541TN-ASE	5MP Pro Al IR Bullet Network Camera, WDR, NTSC		
	IPC-HFW5541TP- ASE	5MP Pro Al IR Bullet Network Camera, WDR, PAL		
	IPC-HFW5541TN- ASE	5MP Pro Al IR Bullet Network Camera, WDR, NTSC		
Accessories (optional)	PFA130-E	Junction box		
	PFA152-E	Pole Mount		
	PFA151	Corner Mount		

Accessories

Optional:



PFA130-E

Junction box



PFA152-E

Pole Mount





FA151 LR1002 er Mount ePoE Over Coax Converter

Junction Mount	Pole Mount	Corner Mount
PFA130-E	PFA130-E+ PFA152-E	PFA130-E + PFA151
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Dimensions (mm[inch])





