

# DH-IPC-HFW5449T-ASE-NI

4MP Pro Al Full-color Fixed-focal Bullet Network Camera



- 1/1.8" 4Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- · 25/30 fps@2688 × 1520, 50/60 fps@1080 (1920 × 1080)
- · WDR (140 dB), Day/Night (Electronic), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 3.6 mm fixed lens
- 1/1 Alarm in/out, 1/1 audio in/out
- · Micro SD memory, IP67











### 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 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.

#### ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 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, 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.

#### **Full-color Starlight**

The camera adopts F1.0 large aperture lens and 1/1.8" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera presents an impressive low light performance with an exceptional balance between noise reduction and the blur of moving object.



<b>Technical Specification</b>					Main Stream: 2688 × 1520 (1 fps-25/30 fps) 2560 × 1440 (1 fps-25/30 fps)
Camera				Frame Rate	2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps)
Image Sensor	1/1.8" 4Megapixel progressive scan CMOS				Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 fps)
Effective Pixels	2688 (H) × 1520 (V)				Third Stream: 1080P (1 fps–16 fps)
RAM/ROM 1 GB/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	Day/Night: Electronic
Minimum Illumination 0.001 Lux @F1.0				BLC Mode	Color/B/W
Lens				White Balance	BLC/HLC/WDR (140 dB)
Lens Type Fixed-focal			Gain Control	Auto/Natural/Street Lamp/Outdoor/Manual	
Mount Type	Board-in	Board-in			Auto/Manual
Focal Length	3.6 mm			Noise Reduction	3D DNR
Max. Aperture	F1.0			Motion Detetion	Off/On (4 Zone, Rectangle)
Angle of View	H: 93°, V: 50°			Region of Interest	Off/On (4 Zone)
Aperture Type	Fixed			Defog	Yes
Close Focus Distance	2.0 m (6.56 ft)			Flip	0°/90°/180°/270°
Lens	Detect Observe Re	ecognize	Identify	Mirror	Off/On
DORI Distance 3.6mm	70 m (230 ft) 28 m (91 ft) 14	4m(46ft)	7m(23ft)	Privacy Masking	Off/On (4 Area, Rectangle)
Pan/Tilt/Rotation				Audio	
Pan/Tilt/Rotation Range Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°			60°	Compression	G.711a, G.711Mu, G.726, AAC, G.723
Artificial Intelligence				Network	
Face Detection	Support face image capture			Ethernet	RJ-45 (10/100 Base-T)
Tripwire; intrusion (Re Perimeter Protection people); fast moving; I detection and people		g detection		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/C counting; Support 4 accesses in detection, 4 areas independent		es independent		Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milstone, Genetec; P2P
				Streaming Method	Unicast/Multicast
General Intelligence				Max. User Access	20 Users
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address			Edge Storage	NAS; FTP; SFTP Micro SD card 256 GB
General Intelligence	conflict, Illegal Access, Storage Object Abandoned/Missing	e anomaly		Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Heat Map Yes				Management Software	Smart PSS, DSS, P2P
Video				Smart Phone	iOS, Android
	H.265, H.264, H.264B, H.264H,	н.264В, н.264Н,		Certifications	
Compression Smart Codec	MJPEG(sub stream) Yes			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
Streaming Capability	3 Streams				
Desclution	2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 ×			Interface	
Resolution	720)/D1 (704×576/704×480)/VGA (640×480)/CIF (352×288/352×240)		Audio Interface	1/1 channel in/Out	

# Pro Al Series | DH-IPC-HFW5449T-ASE-NI

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	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	<4.4W
	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
	Construction	
	Casing	Metal

2.99")

0.805 Kg (1.77 lb)

1.16 Kg (2.56 lb)

244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" ×

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HFW5449TP- ASE-NI	4MP Pro Al Full-color Fixed-focal Bullet Network Camera, WDR, PAL				
4MP camera	DH-IPC- HFW5449TN- ASE-NI	4MP Pro Al Full-color Fixed-focal Bullet Network Camera, WDR, NTSC				
	IPC-HFW5449TP- ASE-NI	4MP Pro Al Full-color Fixed-focal Bullet Network Camera, WDR, PAL				
	IPC-HFW5449TN- ASE-NI	4MP Pro Al Full-color Fixed-focal Bullet Network Camera, WDR, NTSC				
	PFA130-E	Junction box				
Accessories (optional)	PFA152-E	Pole Mount				
, , ,	PFA151	Corner Mount				

# Accessories

# **Optional:**









PFA130-E Junction box

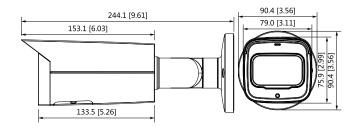
PFA152-E Pole Mount

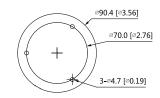
PFA151 Corner Mount

ePoE Over Coax Converter

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

# Dimensions (mm[inch])







Dimensions

Net Weight
Gross Weight