

# DH-IPC-HFW5241E-SE

2MP Pro AI IR Fixed-focal Bullet Network Camera





- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265 & H.264 triple-stream encoding
- · 25/30 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 optional)
- · Max. IR LEDs Length 50 m
- · 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. 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.

## 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.

#### 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.



Technical Specification						Streaming Capability	3 Streams
Camera				Resolution	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/		
Image Sensor		1/2.8" 2Mega	1/2.8" 2Megapixel progressive scan STARVIS™ CMOS				CIF (352 × 288/352 × 240)
Effective Pixels		1920 (H) × 10	080 (V)			Frame Rate	Main Stream: 1080P (1 fps-25/30 fps)
RAM/ROM		512 MB/128	MB				Sub Stream: D1 (1 fps–25/30 fps)
Scanning System		Progressive					Third Stream: 1080P (1 fps–6 fps)
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s				Bit Rate Control	CBR/VBR H.264: 32 Kbps-8192 Kbps
Minimum Illumination		0.002 Lux@F	1.6			Bit Rate	H.265: 19 Kbps-7424 Kbps
IR Distance		Distance up to 50 m (164 ft)				Day/Night	Auto(ICR)/Color/B/W
IR On/Off Control		Auto/Manual				BLC Mode	BLC/HLC/WDR (120 dB)
IR LEDs		2				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Lens						Gain Control	Auto/Manual
Lens Type		Fixed-focal				Noise Reduction	3D DNR
Mount Type		Board-in	Board-in			Motion Detection	Off/On (4 Zone, Rectangle)
Focal Length		2.8 mm, 3.6 i	2.8 mm, 3.6 mm, 6.0 mm			Region of Interest	Off/On (4 Zone)
Max. Aperture		F1.6				Electronic Image Stabilization (EIS)	N/A
Angle of View		H: 106°, V: 57	H: 106°, V: 57°/H: 87°, V: 46°/H: 53°, V: 30°			Smart IR	Yes
Aperture Type		Fixed	Fixed			Defog	Yes
Close Focus Distance		0.6 m (1.97 ft	0.6 m (1.97 ft)/1.2 m (3.94 ft)/2.5 m (8.20 ft)			Flip	0°/90°/180°/270°
	Lens	Detect	Observe	Recognize	Identify	Mirror	Off/On
DORI Distance	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	Privacy Masking	Off/On (4 Area, Rectangle)
DONI DISTAILCE	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	Audio	
	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	Compression	N/A
Pan/Tilt/Rotat	tion					Network	
Pan/Tilt/Rotation Range		Pan: 0°-360°,	Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°			Ethernet	RJ-45 (10/100 Base-T)
Artificial Intelligence		6 16				Protocol	IPv4;IPv6;HTTP;HTTP5;TCP;UDP;ARP;RTP;RTSP;RTCF; ;RTMP;SMTP;FTP;SFTP;DHCP;DN5;DDN5;Qo5;UPnP ;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMF
Face Detection  Perimeter Protection	ction	Tripwire, intr	, ,	nition of vehic		Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
Termineter Frotes	CHOII	detection an	people), fast moving, loitering detection, parking detection and people gathering			Streaming Method	Unicast/Multicast
People Counting		counting; Su	pport 4 acces	ion/Queueing ses independe ndent detectio	ent	Max. User Access	20 Users
General Intelligence						Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB
Event Trigger		Motion detection, Video tampering , Scene 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, DMSS
Heat Map		Yes				Smart Phone	iOS, Android
Video						Certifications	
Compression		H.265,H.264, MJPEG (sub s	.H.264B,H.264 stream)	4H,		Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Smart Codec		Yes	Yes				FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

## Interface

Audio Interface	N/A
RS485	N/A
Alarm	N/A

## Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<6.8W

## 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, plastic
Dimensions	182.3 mm × 70.0 mm × 70.0 mm (7.18" × 2.76" × 2.76")
Net Weight	0.47 kg (1.04 lb)
Gross Weight	0.59 kg (1.30 lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HFW5241EP-SE	2MP Pro Al IR Fixed-focal Bullet Network Camera, WDR, PAL		
2MP camera	DH-IPC- HFW5241EN-SE	2MP Pro Al IR Fixed-focal Bullet Network Camera,WDR, NTSC		
Ziiii daiiidia	IPC-HFW5241EP-SE	2MP Pro Al IR Fixed-focal Bullet Network Camera, WDR, PAL		
	IPC-HFW5241EN- SE	2MP Pro Al IR Fixed-focal Bullet Network Camera, WDR, NTSC		
	PFA121	Junction box		
Accessories (optional)	PFA152-E	Pole Mount		
, , ,	PFA151	Corner Mount		

# Accessories

## Optional:







PFA152-E Pole Mount



PFA151 Corner Mount



LR1002 ePoE Over Coax Converter

Junction Mount	Pole Mount	Corner Mount
PFA121	PFB121 + PFA152	PFB121 + PFA151

# Dimensions (mm[inch])



