

# IPC-HFW5241T-ASE-0280B-BLACK

2MP WDR IR Bullet AI 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
- $\cdot$  Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm, 6.0 mm, 8.0 mm, 12.0 mm optional)
- $\cdot$  1/1 Alarm in/out, 1/1 audio in/out
- $\cdot$  Max. IR LEDs Length 80 m
- · Micro SD memory, IP67



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 AI 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

### Face Capture

Face capture 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

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.



## Pro Al Series | IPC-HFW5241T-ASE-0280B-BLACK

### **Technical Specification**

Camera						
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS				
Effective Pixels		1920 (H) × 1080 (V)				
RAM/ROM		512 MB/128 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s				
Minimum Illumination		0.002 Lux@F1.6				
IR Distance		Distance up to 80 m (262 ft)				
IR On/Off Control		Auto/Manual				
IR LEDs		4				
Lens						
Lens Type		Fixed				
Mount Type		Board-in				
Focal Length		2.8 mm, 3.6 mm, 6.0 mm, 8.0 mm, 12.0 mm				
Max. Aperture		F1.6 (2.8 mm–8.0 mm), F2.0 (12.0 mm)				
Angle of View			H: 106°, V: 57°/H: 87°, V: 46°/H: 53°, V: 30°/ H: 41°, V: 23°/H: 26°, V: 14°			
Optical Zoom		N/A				
Aperture Type		Fixed				
Close Focus Distance		0.6 m (1.97 ft)/1.2 m (3.94 ft)/2.5 m (8.20 ft)/ 4 m (13.12 ft)/8.6 m (28.22 ft)				
	Lens	Detect	Observe	Recognize	Identify	
	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	
DORI Distance	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	
D O I II D I D I D I D I D I D I D I D I	6mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	
	8mm	110m(361ft)	44m(144ft)	22m(72ft)	11m(36ft)	
	12mm	172m(564ft)	69m(226ft)	35m(115ft)	17m(56ft)	
Pan/Tilt/Rotat	ion					
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				
Artificial Intelligence						
Face Capture		Support face image capture				
Perimeter Protection		Tripwire, Intrusion (Human & Vehicle classification)				
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection				
General Intelli	gence					

General Intelligence	
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly
General Intelligence	Object Abandoned/Missing

### Video

Video			
Compression	H.265+, H.265, H.264+, H.264, H.264B, H.264H, MJPEG (sub stream)		
Streaming Capability	3 Streams		
Resolution	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)		
	Main Stream: 1080P (1 fps-25/30 fps)		
Frame Rate	Sub Stream: D1 (1 fps-25/30 fps)		
	Third Stream: 1080P (1 fps-6 fps)		
Bit Rate Control	CBR/VBR		
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–7424 Kbps		
Day/Night	Auto(ICR)/Color/ B/W		
BLC Mode	BLC/HLC/WDR (120 dB)		
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual		
Gain Control	Auto/Manual		
Noise Reduction	3D DNR		
Motion Detetion	Off/On (4 Zone, Rectangle)		
Region of Interest	Off/On (4 Zone)		
Electronic Image Stabilization (EIS)	N/A		
Smart IR	Support		
Defog	Support		
Digital Zoom	N/A		
Flip	0°/90°/180°/270°		
Mirror	Off/On		
Privacy Masking	Off/On (4 Area, Rectangle)		
Audio			
Compression	G.711a, G.711Mu, G.726, AAC, G.723		
Network			
Ethernet	RJ-45 (10/100 Base-T)		
Protocol	HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/v6, SNMP, QoS, UPnP, NTP, ICMP, HTTPS, IGMP, 802.1x		
Interoperability	ONVIF (Profile S/Profile G), CGI, Milstone, Genetec, P2P		
Streaming Method	Unicast/Multicast		
Max. User Access	20 Users		
Edge Storage	NAS FTP Micro SD card 256 GB		
Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)		
Management Software	Smart PSS, DSS, P2P		
Smart Phone	iOS, Android		

### Certifications

Gross Weight

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		
Video Interface	N/A	
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	<8.7W	
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)	

#### **Ordering Information** Туре Part Number Description DH-IPC-2MP WDR IR Bullet AI Network Camera, HFW5241TP-ASE WDR, PAL DH-IPC-2MP WDR IR Bullet AI Network Camera, HFW5241TN-ASE WDR, NTSC 2MP camera IPC-HFW5241TP-2MP WDR IR Bullet AI Network Camera, WDR, PAL ASE IPC-HFW5241TN-2MP WDR IR Bullet AI Network Camera, ASE WDR, NTSC PFA130-E Junction box Accessories PFA152-E Pole Mount (optional) PFA151 Corner Mount

1.08 kg (2.38 lb)

### Accessories

### **Optional:**

PFA130-E

Junction box







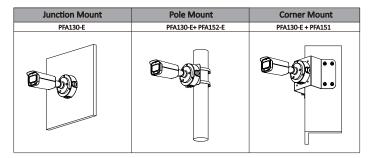
PFA151

Corner Mount

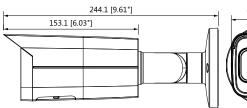


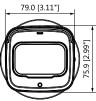
PFA152-E Pole Mount

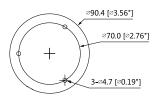
LR1002 ePoE Over Coax Converter



### Dimensions (mm[inch])









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