

DH-IPC-HFW5241T-ASE

2MP Pro AI IR 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
- \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)
- · 1/1 Alarm in/out, 1/1 audio in/out
- \cdot Max. IR LEDs Length 80 m
- · Micro SD memory, IP67,IK10



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.

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



Pro Al Series | DH-IPC-HFW5241T-ASE

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-focal				
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°				
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)	
Doni Distance	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/Rotation						
Pan/Tilt/Rotatio	Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°			
Artificial Intelligence						
Face Detection		Support face image capture				
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering				
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection				
General Intelligence						
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				
General Intelligence		Object Abandoned/Missing				
Heat Map		Yes				

Video H.265,H.264,H.264B,H.264H, Compression MJPEG (sub stream) Smart Codec Yes Streaming Capability 3 Streams 1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 Resolution × 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 H.264: 32 Kbps-8192 Kbps Bit Rate 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 3D DNR Noise Reduction Off/On (4 Zone, Rectangle) Motion Detection Region of Interest Off/On (4 Zone) Electronic Image Stabilization N/A (EIS) Smart IR Yes Defog Yes Flip 0°/90°/180°/270° Off/On Mirror Privacy Masking Off/On (4 Area, Rectangle) Audio G.711a, G.711Mu, G.726, AAC, G.723 Compression Network RJ-45 (10/100 Base-T) Ethernet IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP Protocol ;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP ;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Interoperability Genetec, P2P Streaming Method Unicast/Multicast Max. User Access 20 Users NAS;FTP;SFTP Edge Storage Micro SD card 256 GB IE (versions newer than IE8), Chrome, Web Viewer Firefox, Safari (versions newer than Safari 12) Management Software Smart PSS, DSS, DMSS iOS, Android Smart Phone

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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	<8.7W			
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)			

Ordering Information

Туре	Part Number	Description		
2MP camera	DH-IPC- HFW5241TP-ASE	2MP Pro Al IR Bullet Network Camera, WDR, PAL		
	DH-IPC- HFW5241TN-ASE	2MP Pro Al IR Bullet Network Camera, WDR, NTSC		
	IPC-HFW5241TP- ASE	2MP Pro Al IR Bullet Network Camera, WDR, PAL		
	IPC-HFW5241TN- ASE	2MP 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

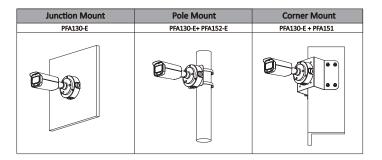


PFA151

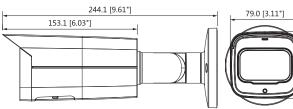
Corner Mount

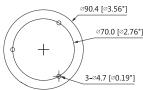


LR1002 ePoE Over Coax Converter

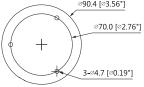


Dimensions (mm[inch])











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