

DH-IPC-HFW5442T-AS-LED

4MP WDR Bullet AI 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. 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 humanbodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

- \cdot 1/1.8" 4Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- · 25/30 fps@2688 × 1520, 50/60 fps@1080P (1920 × 1080)
- · WDR (140 dB), Day/Night (Electronic), 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)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. LEDs Length 20 m
- · Micro SD memory, IP67,IK10



Full-color Starlight

The camera adopts F1.6 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 lowlight performance with an exceptional balance between noise reduction and the blur of moving object.

Warm Supplemental lights

With two warm supplemental LED lights, the camera is able to provide a colorful and vivid image even in total darkness. It also provides visible By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposureing of the objects in the image center. Also, the sensitivity and intensity of the LED lights can be remotely controlled by OSD menu.

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-HFW5442T-AS-LED

Technical Specification

Smart Codec

Camera					
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS			
Effective Pixels		2688 (H) × 1520 (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			
LED Distance		Distance up to 20 m (66 ft)			
LED On/Off Control		Auto/Manual			
LEDs		2			
Lens					
Lens Type		Fixed-focal			
Mount Type		Board-in			
Focal Length		2.8 mm, 3.6 mm, 6.0 mm			
Max. Aperture		F1.6			
Angle of View		H: 113°, V: 60°/H: 89°, V: 48°/H: 56°, V: 31°			
Aperture Type		Fixed			
Close Focus Dis	tance	1.3 m (4.27 f	1.3 m (4.27 ft)/1.9 m (6.23 ft)/3.8 m (12.47 ft)		
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)
DONIDIStance	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)
	6mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)
Pan/Tilt/Rota	ation				
Pan/Tilt/Rotation Range		Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°			
Artificial Inte	lligence				
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 Intel	ligence				
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					
Compression		H.265,H.264,H.264B,H.264H, MJPEG (sub stream)			

Yes

	2.0	
Streaming Capability	3 Streams	
	Main Stream: 2688 × 1520 (1 fps–25/30 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)	
Frame Rate	Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)	
	Third Stream: 1080P (1 fps-16 fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps	
Day/Night	Day/Night: Electronic Auto/Color/B/W	
BLC Mode	BLC/HLC/WDR (140 dB)	
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Gain Control	Auto/Manual	
Noise Reduction	3D DNR	
Motion Detection	Off/On (4 Zone, Rectangle)	
Region of Interest	Off/On (4 Zone)	
Electronic Image Stabilization (EIS)	N/A	
Smart IR	Yes	
Defog	Yes	
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	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	
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P	
Streaming Method	Unicast/Multicast	
Max. User Access	20 Users	
Edge Storage	NAS;FTP;SFTP 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, DMSS	
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	

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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	<7.4W	
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	
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)	

Accessories

Optional:



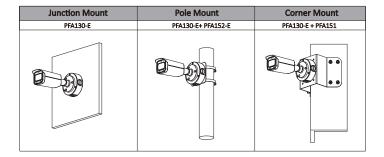




PFA130-E Junction box

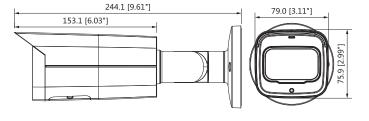
PFA152-E Pole Mount

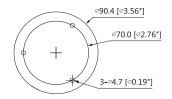
PFA151 Corner Mount



Dimensions (mm[inch])

Ordering Information					
Туре	Part Number	Description			
4MP camera	DH-IPC- HFW5442TP-AS- LED	4MP WDR Bullet AI Network Camera, WDR, PAL			
	DH-IPC- HFW5442TN- AS-LED	4MP WDR Bullet Al Network Camera, WDR, NTSC			
	IPC-HFW5442TP- AS-LED	4MP WDR Bullet Al Network Camera, WDR, PAL			
	IPC-HFW5442TN- AS-LED	4MP WDR Bullet Al Network Camera, WDR, NTSC			
Accessories (optional)	PFA130-E	Junction box			
	PFA152-E	Pole Mount			
	PFA151	Corner Mount			







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