

DH-IPC-HFW5442T-AS-LED

4MP WDR Bullet Al 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
- · 2.8 mm fixed lens (3.6 mm, 6.0 mm optional)
- \cdot 1/1 Alarm in/out, 1/1 audio in/out
- · Max. LEDs Length 20 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 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.

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, 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.



Technical Sp	ecification							Main Stream: 2688 × 1520 (1 fps-25/30 fps)
Camera								2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS					Frame Rate	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		512 MB/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@F1.6					BLC Mode	Auto/Color/B/W
LED Distance		Distance up to 20 m (66 ft)					White Balance	BLC/HLC/WDR (140 dB) Auto/Natural/Street Lamp/Outdoor/Manual
LED On/Off Control		Auto/Manual					Gain Control	Auto/Manual
LEDs		2					Noise Reduction	3D DNR
Lens							Motion Detetion	
Lens Type		Fixed					Region of Interest	Off/On (4 Zone, Rectangle)
Mount Type		Board-in					Electronic Image Stabilization	Off/On (4 Zone)
Focal Length		2.8 mm, 3.6 mm, 6.0 mm					(EIS)	N/A
Max. Aperture		F1.6					Smart IR	Support
Angle of View		H: 113°, V: 60°/H: 89°, V: 48°/H: 56°, V: 31°					Defog	Support
Optical Zoom		N/A					Digital Zoom	N/A
Aperture Type		Fixed					Flip	0°/90°/180°/270°
Close Focus Dista	ance	1.3 m (4.27 ft	t)/1.9 m (6.23	ft)/3.8 m (12.	.47 ft)		Mirror	Off/On
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	Off/On (4 Area, Rectangle)
	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)		Audio	
DORI Distance	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)		Compression	G.711a, G.711Mu, G.726, AAC, G.723
	6mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)		Network	
Pan/Tilt/Rotat	ion						Ethernet	RJ-45 (10/100 Base-T)
Pan/Tilt/Rotation		Pan: 0°-360°;	; Tilt: 0°–90°; f	Rotation: 0°–3	360°		Protocol	HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPP0E, IPv4/v6, SNMP, Q0 UPnP, NTP, ICMP, HTTPS, IGMP, 802.1x
Artificial Intell	igence						Interoperability	ONVIF (Profile S/Profile G), CGI, Milstone, Geneter
Face Capture		Support face image capture					Streaming Method	Unicast/Multicast
Perimeter Protec	ction	Tripwire, Intrusion (Human & Vehicle classification)					Max. User Access	20 Users
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection					Edge Storage	NAS FTP
General Intelli	gence						Mah Vinus	Micro SD card 256 GB IE (versions newer than IE8), Chrome,
		Motion detection, Video tampering , Scene					Web Viewer	Firefox, Safari (versions newer than Safari 12)
Event Trigger		changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly					Management Software	Smart PSS, DSS, P2P
General Intelligence		Object Abandoned/Missing					Smart Phone	iOS, Android
Video							Certifications	25 U.S. 5U2225
Compression		H.265+, H.265, H.264+, H.264, H.264B, H.264H, MJPEG (sub stream)					Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Streaming Capability		3 Streams						UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-0

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	<7.4W

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)
Gross Weight	1.08 kg (2.38 lb)

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

Accessories

Optional:







PFA130-E Junction box

PFA152-E Pole Mount

PFA151 Corner Mount

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

Dimensions (mm[inch])





