

# DH-IPC-HDW5442TM-AS-LED

4MP WDR Eyeball AI Network Camera



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.

- · 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)
- · Built-in MIC
- · Max. LEDs Length 20 m
- · Micro SD memory, IP67











### **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.

### Full-color Starlight

The camera adopts F1.6 large aperture lens and 1/2.8" 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					Day/Night	Auto/Color/B/W
LED Distance		Distance up to 20 m (66 ft)					BLC Mode	BLC/HLC/WDR (140 dB)
LED On/Off Control		Auto/Manual					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
LEDs		2					Gain Control	Auto/Manual
Lens							Noise Reduction	3D DNR
Lens Type		Fixed					Motion Detetion	Off/On (4 Zone, Rectangle)
Mount Type		Board-in					Region of Interest	Off/On (4 Zone)
Focal Length		2.8 mm, 3.6 mm, 6.0 mm					Electronic Image Stabilization (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 Distance		1.3 m (4.27 ft)/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(192ft)	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
	6.0mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)		Network	
Pan/Tilt/Rota	tion						Ethernet	RJ-45 (10/100 Base-T)
Pan/Tilt/Rotatio	n Range	Pan: 0°–360°; Tilt: 0°–78°; Rotation: 0°–360°					Protocol	HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/v6, SNMP, QoS,
Artificial Intel	ligence							UPnP, NTP, ICMP, HTTPS, IGMP, 802.1x
Face Capture		Support face image capture					Interoperability	ONVIF (Profile S/Profile G), CGI, Milstone, Genetec, P2P
Perimeter Protection		Tripwire, Intrusion (Human & Vehicle classification)					Streaming Method	Unicast/Multicast
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection					Max. User Access	20 Users
General Intelligence		accession, 4 areas muepenuent detection					Edge Storage	NAS FTP 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, P2P
Video							Smart Phone	iOS, Android
Compression		H.265+, H.265, H.264+, H.264, H.264B, H.264H, MJPEG(sub stream)					Certifications	
Streaming Capability		3 Streams						CE-LVD: EN60950-1
Resolution		2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)					Certifications	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

# Pro Al Series | DH-IPC-HDW5442TM-AS-LED

### Interface

Video Interface	N/A
Audio Interface	Built-in MIC
RS485	N/A
Alarm	N/A

### Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)	
Power Consumption	<7.2W	

### 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

### Construction

Casing	Metal
Dimensions	Φ106 mm × 99.2 mm (4.17" × 3.91")
Net Weight	0.55 kg (1.21 lb)
Gross Weight	0.71 kg (1.57 lb)

#### **Ordering Information** Туре Part Number Description DH-IPC-4MP WDR Eyeball AI Network Camera, WDR, HDW5442TMP-AS-LED DH-IPC-4MP WDR Eyeball AI Network Camera, WDR, HDW5442TMN-AS-LED 4MP camera 4MP WDR Eyeball AI Network Camera, WDR, HDW5442TMP-AS-LED 4MP WDR Eyeball Al Network Camera, WDR, HDW5442TMN-NTSC AS-LED PFA130-E Junction box PFA151 Corner Mount PFB204W Wall Mount Accessories (optional) PFA106 Mount Adapter PFB220C Ceiling Mount PFA152-E Pole Mount

### **Accessories**

# Optional:









PFA130-E Junction box

PFA151 Corner Mount

Pole Mount

PFB204W Wall Mount

PFA106 Mount Adapter





Junction Mount	Corner Mount
PFA130-E	PFA151+PFB204W
Wall Mount	Ceiling Mount
PFB204W	PFA106+PFB220C
Ceiling Mount	Pole Mount
	PFB204W + PFA152-E

# Dimensions (mm[inch])





