

DH-IPC-HDW5442TM-AS-LED

4MP WDR Eyeball AI Network Camera



System Overview

Pro Al 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.

- · 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)
- · Built-in MIC
- · Max. LEDs Length 40 m
- · Micro SD memory, IP67











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 Specification							2688 × 1520/2560 × 1440/2304 × 1296/1080P
Camera						Resolution	(1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS			OS		(352 × 288/352 × 240)
Effective Pixels		2688 (H) × 1520 (V)				Frame Rate	Main Stream: 2688 × 1520 (1 fps-25/30 fps) 2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps)
RAM/ROM		512 MB/128 MB					
Scanning System		Progressive					Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s					Third Stream: 1080P (1 fps–16 fps)
Minimum Illumination		0.002 Lux@F1.6				Bit Rate Control	CBR/VBR
LED Distance		Distance up to 40 m (131.2 ft)					H.264: 32 Kbps-8192 Kbps
LED On/Off Control		Auto/Manual				Bit Rate	H.265: 19 Kbps-8192 Kbps
LEDs		2				Day/Night	Day/Night: Electronic Auto/Color/B/W
Lens						BLC Mode	BLC/HLC/WDR (140 dB)
Lens Type		Fixed-focal				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Mount Type		Board-in				Gain Control	Auto/Manual
Focal Length		2.8 mm, 3.6 mm, 6.0 mm				Noise Reduction	3D DNR
Max. Aperture		F1.6				Motion Detection	Off/On (4 Zone, Rectangle)
Angle of View		H: 113°, V: 60°/H: 89°, V: 48°/H: 56°, V: 31°				Region of Interest	Off/On (4 Zone)
Aperture Type		Fixed				Electronic Image Stabilization (EIS)	N/A
Close Focus Dista	ance	1.3 m (4.27 ft)/1.9 m (6.23 ft)/3.8 m(12.47 ft)			47 ft)	Smart IR	Yes
	Lens	Detect	Observe	Recognize	Identify	Defog	Yes
DORI Distance	2.8mm	58m(192ft)	23m(75ft)	12m(39ft)	6m(20ft)	Flip	0°/90°/180°/270°
	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)	Mirror	Off/On
	6.0mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)	Privacy Masking	Off/On (4 Area, Rectangle)
Pan/Tilt/Rotat	ion					Audio	
Pan/Tilt/Rotation	n Range	Pan: 0°–360°; Tilt: 0°–78°; Rotation: 0°–360°			60°	Compression	G.711a, G.711Mu, G.726, AAC, G.723
Artificial Intell	igence					Network	
Face Detection		Support face	image captur	e		Ethernet	RJ-45 (10/100 Base-T)
Perimeter Protec	ction	Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering Support Line crossing/Region/Queueing people				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
People Counting		counting; Su	pport 4 access areas indeper	ses independe	ent	Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
General Intelli	gence	Motional	otion \/:	mnori C		Streaming Method	Unicast/Multicast
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Max. User Access	20 Users
General Intelligence		Object Abandoned/Missing				Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB
Heat Map		Yes				W 1 No.	IE (versions newer than IE8), Chrome,
Video		H.265,H.264,H.264B,H.264H,				Web Viewer	Firefox, Safari (versions newer than Safari 12)
Compression		MJPEG (sub stream)				Management Software	Smart PSS, DSS, DMSS
Smart Codec		Yes				Smart Phone	iOS, Android
Streaming Capability		3 Streams				Certifications	

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

	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Certifications	FCC: 47 CFR FCC Part 15, Subpart B

Interface

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)/Less than 95% RH
Surge Protection	2KV
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-NTSC AS-LED 4MP camera 4MP WDR Eyeball AI Network Camera, WDR, HDW5442TMP-PAL AS-LED IPC-4MP WDR Eyeball AI 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

PFB204W Wall Mount

PFA106 Mount Adapter



Ceiling Mount



Pole Mount

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])





