

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 Al 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

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
- · 25/30fps@2688×1520
- · WDR(120dB), Day/Night(Electronic), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm, 6mm optional)
- · Max. LEDs Length 17m
- · 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 ±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 Spe	ecification						Main Stream: 2688×1520(1~25/30fps)
Camera					Frame Rate	Sub Stream: D1(1~25/30fps)	
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS					Third Stream: 1080P(1~11fps)
Effective Pixels		2688(H) x 1520(V)				Bit Rate Control	CBR/VBR
RAM/ROM		512MB/128MB				Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 8192Kbps
Scanning System		Progressive				Day/Night	Day/Night: Electronic
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Auto/Color / B/W
Minimum Illumination		0.0016Lux/F1.6 (Color,1/3s,30IRE) 0.015Lux/F1.6 (Color,1/30s,30IRE)				BLC Mode White Balance	BLC / HLC / WDR(120dB) Auto/Natural/Street Lamp/Outdoor/Manual
LED Distance		Distance up to 17m (56ft)					Auto/Manual
LED On/Off Control		Auto/ Manual				Gain Control	
LEDs		2				Noise Reduction	3D DNR
Lens						Motion Detetion	Off / On (4 Zone, Rectangle)
Lens Type		Fixed				Region of Interest Electronic Image Stabilization	Off / On (4 Zone)
Mount Type		Board-in				(EIS)	N/A
Focal Length		2.8mm,3.6m	ım,6.0mm			Smart IR	Support
Max. Aperture		F1.6	,			Defog	Support
			ı°/H· 89° √·48'	°/H· 56° V·31°	,	Digital Zoom	N/A
Angle of View		H: 113°, V:60°/H: 89°, V:48°/H: 56°, V:31° N/A				Flip	0°/90°/180°/270°
Optical Zoom		N/A Fixed				Mirror	Off / On
Aperture Type Close Focus Distance		1.3m(4.27ft)/1.9m(6.23ft)/3.8m(12.47ft)				Privacy Masking	Off / On (4 Area, Rectangle)
Close Focus Dista	Lens	Detect	Observe	Recognize	Identify	Audio	
	2.8mm	58m(192ft)	23m(75ft)	12m(39ft)	6m(20ft)	Compression	G.711a/G.711Mu/G.726/AAC/G.723
DORI Distance	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)	Network	
	6.0mm	113m(371ft)		23m(75ft)	11m(36ft)	Ethernet	RJ-45 (10/100Base-T)
Pan/Tilt/Rotati		, ,	,	,	,	Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP;QoS; UPnP;NTP
Pan/Tilt/Rotation	n Range	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°				1.00	ONVIF(Profile S/Profile G),
Artificial Intelli	igence					Interoperability	CGI,Milstone,Genetec,P2P
Perimeter Protec	tion	Tripwire, Intr	usion(Human	& Vehicle cla	ssification)	Streaming Method	Unicast / Multicast
People Counting		Line crossing people counting, Region people counting				Max. User Access	20 Users
General Intelligence						Edge Storage	NAS FTP Mirco SD card 256GB
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 Resolution		3 Streams 2688×1520/2 280×960)/72	2304×1296/10 20P(1280×720 30)/CIF(352×28)/D1(704×576		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
							Grany COM CZZ.Z 140.00000-1-07

Interface

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

Electrical

Power Supply	DC12V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:2.1W 6.2W(LED on) PoF:2.6W 7.2W(LFD on)

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / 10%RH~95% RH
Strorage Conditions	+5° C $^{\sim}$ +40° C (+41° F $^{\sim}$ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH $^{\sim}$ 95% RH
Ingress Protection	IP67

Construction

Casing	Metal
Dimensions	Ф106mm×99.2mm (4.17"×3.91")
Net Weight	0.55Kg (1.21lb)
Gross Weight	0.71Kg (1.57lb)

Ordering Information Туре Part Number Description DH-IPC-4MP WDR Eyeball AI Network HDW5442TMP-Camera,WDR,PAL AS-LED DH-IPC-4MP WDR Eyeball AI Network HDW5442TMN-Camera,WDR,NTSC AS-LED 4MP camera 4MP WDR Eyeball AI Network HDW5442TMP-Camera,WDR,PAL AS-LED IPC-4MP WDR Eyeball AI Network HDW5442TMN-Camera,WDR,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





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)





