

DH-IPC-HDW5442TM-AS

4MP WDR IR 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.

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 STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4Mp(2688×1520)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm, 6mm optional)
- · Max. IR LEDs Length 51m
- · Micro SD memory, IP67











Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Dahua face detection camera can extract six facial attributes and output the metadata for analysis.

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: 4M(1~25/30ps)
Camera						Frame Rate	Sub Stream: D1(1~25/30fps)
		1/1 0" 414		-i CNAC			Third Stream: 1080P(1~11fps)
Image Sensor			apixel progress	sive scan civic)5	Bit Rate Control	CBR/VBR
Effective Pixels		2688(H) x 1520(V)				Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 8192kps
RAM/ROM		512MB/128N	ИΒ			Day/Night	Auto(ICR) / Color / B/W
Scanning System		Progressive				BLC Mode	BLC / HLC / WDR(120dB)
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Minimum Illumination		0.001653Lux/F1.6 (Color,1/3s,30IRE) 0.01482Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)				Gain Control	Auto/Manual
			nce up to 26n			Noise Reduction	3D DNR
IR Distance			nce up to 34n ce up to 51m (Motion Detetion	Off / On (4 Zone, Rectangle)
IR On/Off Contro	I	Auto/ Manual				Region of Interest	Off / On (4 Zone)
IR LEDs		2				Electronic Image Stabilization (EIS)	N/A
Lens						Smart IR	Support
Lens Type		Fixed				Defog	Support
Mount Type		Board-in				Digital Zoom	N/A
Focal Length		2.8mm,3.6mm,6.0mm				Flip	0°/90°/180°/270°
Max. Aperture		F1.6				Mirror	Off / On
Angle of View		H: 113°, V:60°/H: 89°, V:48°/H: 56°, V:31°				Privacy Masking	Off / On (4 Area, Rectangle)
Optical Zoom		N/A	N/A			Audio	
Aperture Type		Fixed				Compression	G.711a/G.711Mu/G.726/AAC/G.723
Close Focus Dista	ince	1.3m(4.27ft)/	/1.9m(6.23ft)/	3.8m(12.47ft)			o., 11a, o., 11a, o., 20,, 1a, o., 12
	Lens	Detect	Observe	Recognize	Identify	Network	
	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)	Ethernet	RJ-45 (10/100Base-T)
DORI Distance	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)	Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPP0E; IPv4/v6; SNMP;QoS; UPnP;NTP
	6.0mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)	Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P
Pan/Tilt/Rotat	ion					Streaming Method	Unicast / Multicast
Pan/Tilt/Rotation	n Range	Pan:0°~360°;	Tilt:0°~78°; Ro	otation:0°~36	0°	Max. User Access	20 Users
Artificial Intelligence		Tripwire Intr	usion(Human	& Vehicle cla	ssification)	Edge Storage	NAS FTP Mirco SD card 256GB
Perimeter Protection People Counting			people count			Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
General Intollia	gence	counting, coll				Management Software	Smart PSS, DSS, P2P
General Intelligence		Motion detec	ction. Video t	ampering . So	ene	Smart Phone	iOS, Android
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Certifications	
General Intelligence		Object Abandoned/Missing					CE-LVD:EN60950-1 CE-EMC:Electromagnetic Compatibility Directive
Video						Certifications	2014/30/EU FCC:47 CFR FCC Part 15, Subpart B
Compression		H.265/H.264	/H.264H/H.26	64B/MJPEG(su	ıb stream)		UL/CUL: UL60950-1
Streaming Capability		3 Streams					CAN/CSA C22.2 No.60950-1-07
Resolution		4M(2688×1520)/3M(2304×1296)/1080P(192 0×1080)/1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/				Interface	N/A
		CIF(352×288/352×240)				Video Interface	N/A

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Audio Interface	N/A
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC12V, PoE(802.3af)(Class 0)
Power Consumption	DC12V:2.1W 6.2W(IR on) PoE:2.6W 7.2W(IR 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,plastic
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- HDW5442TMP-AS	4MP WDR IR Eyeball AI Network Camera, WDR,PAL	
4MP camera	DH-IPC- HDW5442TMN-AS	4MP WDR IR Eyeball Al Network Camera, WDR,NTSC	
	IPC- HDW5442TMP-AS	4MP WDR IR Eyeball Al Network Camera, WDR,PAL	
	IPC- HDW5442TMN-AS	4MP WDR IR Eyeball AI Network Camera, WDR,NTSC	
Accessories (optional)	PFA130-E	Junction box	
	PFA151	Corner Mount	
	PFB203W	Wall Mount	
	PFA106	Mount Adapter	
	PFB220C	Ceiling Mount	
	PFA152-E	Pole Mount	

Accessories

Optional:









PFA130-E Junction box

PFA151 Corner Mount

PFB203W Wall Mount

PFA106 Mount Adapter







PFA152-E Pole Mount

Junction Mount	Corner Mount
PFA130-E	PFA151+PFB203W
Wall Mount	Ceiling Mount
PFB203W	PFA106+PFB220C
Ceiling Mount	Pole Mount
	PFB203W + PFA152-E

Dimensions (mm/inch)





