

DH-IPC-HDW5241TM-AS-LED

2MP WDR Eyeball Al 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

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.

Face Attributes

Through the use of deep learning algorithms to analyze facial images, Dahua cameras can extract six facial attributes from each frame, including Age, Gender, Expression (Jolly/Surprise/Normal/Rage/Sad/Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard. Customers can acquire data of interest via face attributes statistics.

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

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · 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













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.

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 Specification			Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(128 0×720)/D1(704×576/704×480)/VGA(640×480)/				
Camera							CIF(352×288/352×240)	
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS					Frame Rate	Main Stream: 1080P(1~25/30fps)
Effective Pixels		1920(H) x 1080(V)						Sub Stream: D1(1~25/30fps)
RAM/ROM		512MB/128MB						Third Stream: 1080P(1~6fps)
Scanning System		Progressive					Bit Rate Control	CBR/VBR
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 7424Kbps
Minimum Illumination		0.002Lux/F1.6 (Color,1/3s,30IRE) 0.012Lux/F1.6 (Color,1/30s,30IRE)					Day/Night	Day/Night: Electronic Auto/ Color / B/W
LED Distance		Distance up to 17m (56ft)					BLC Mode	BLC / HLC / WDR(120dB)
LED On/Off Cont	rol	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		2.8mm,3.6mm,6.0mm					Electronic Image Stabilization (EIS)	N/A
Max. Aperture		F1.6					Smart IR	Support
Angle of View		H: 106°, V:57°/H: 87°, V:46°/H: 53°, V:30°					Defog	Support
Optical Zoom		N/A					Digital Zoom	N/A
Aperture Type		Fixed				Flip	0°/90°/180°/270°	
Close Focus Distance		0.6m(1.97ft)/1.2m(3.94ft)/2.5m(8.20ft)				Mirror	Off / On	
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	Off / On (4 Area, Rectangle)
	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)		Audio	
DORI Distance	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)		Compression	G.711a/G.711Mu/G.726/AAC/G.723
	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)		Network	
Pan/Tilt/Rotat	tion						Ethernet	RJ-45 (10/100Base-T)
Pan/Tilt/Rotation	n Range	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°				Destruct	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP;	
Artificial Intell	igence						Protocol	FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP;QoS; UPnP;NTP
Face Capture		Support face image Capture				Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P	
For Assething		Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly/Surprise/Normal/				Streaming Method	Unicast / Multicast	
Face Attributes		0 , ,	sgusted/Confu th Mask, Mou	, ,	**		Max. User Access	20 Users
Perimeter Protec	ction	Tripwire, Intrusion(Human & Vehicle classification)					Edge Storage	NAS FTP Mirco SD card 256GB
People Counting		Line crossing people counting, Region people counting					Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
General Intelligence			Management Software	Smart PSS, DSS, P2P				
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly					Smart Phone	iOS, Android
General Intelligence		Object Abandoned/Missing					Certifications	
Video								CE-LVD:EN60950-1 CE-EMC:Electromagnetic Compatibility Directive
Compression		H.265+/H.265/H.264+/H.264/H.264B/H.264H/ MJPEG(sub stream)				Certifications	2014/30/EU FCC:47 CFR FCC Part 15, Subpart B UL/CUL:	
Streaming Capability		3 Streams					UL60950-1 CAN/CSA C22.2 No.60950-1-07	

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:1.8W 6.2W(LED on) PoF:2.2W 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×93.6mm (4.17"×3.69")
Net Weight	0.54Kg (1.19lb)
Gross Weight	0.71Kg (1.57lb)

	Ordering Ir	Information					
	Туре	Part Number	Description				
		DH-IPC- HDW5241TMP- AS-LED	2MP WDR Eyeball AI Network Camera, WDR,PAL				
	2MP camera	DH-IPC- HDW5241TMN- AS-LED	2MP WDR Eyeball AI Network Camera, WDR,NTSC				
		IPC-HDW5241TMP- AS-LED	2MP WDR Eyeball Al Network Camera, WDR,PAL				
		IPC- HDW5241TMN- AS-LED	2MP WDR Eyeball AI Network Camera, WDR,NTSC				
	Accessories (optional)	PFA130-E	Junction box				
		PFA151	Corner Mount				
		PFB204W	Wall Mount				
		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)





