

DH-IPC-HDW5241TM-AS-LED

2MP WDR Eyeball AI Network Camera



- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265 & H.264 triple-stream encoding
- · 25/30 fps@1080P (1920 × 1080)
- · WDR (120 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











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.

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			Sma	rt Codec	Yes			
Camera				Strea	aming Capability	3 Streams		
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS				Dane	Resolution	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)
Effective Pixels		1920 (H) × 1080 (V)			Kesc			
RAM/ROM		512 MB/128 MB						Main Stream: 1080P (1 fps-25/30 fps)
Scanning System		Progressive				Fran	Frame Rate	Sub Stream: D1 (1 fps-25/30 fps)
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s						Third Stream: 1080P (1 fps-6 fps)
Minimum Illumination		0.002 Lux@F1.6				Bit R	Rate Control	CBR/VBR
LED Distance		Distance up to 20 m (66 ft)				Bit R	Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-7424 Kbps
LED On/Off Control		Auto/Manual				Day/	/Night	Day/Night: Electronic Auto/Color/B/W
LEDs		2				BLC	Mode	BLC/HLC/WDR (120 dB)
Lens						Whit	te Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Lens Type		Fixed-focal				Gain	n Control	Auto/Manual
Mount Type		Board-in				Nois	se Reduction	3D DNR
Focal Length		2.8 mm, 3.6	mm, 6.0 mm			Mot	ion Detection	Off/On (4 Zone, Rectangle)
Max. Aperture		F1.6				Regi	ion of Interest	Off/On (4 Zone)
Angle of View		H: 106°, V: 57°/H: 87°, V: 46°/H: 53°, V: 30°			0°	Elec' (EIS)	tronic Image Stabilization	N/A
Aperture Type		Fixed			Sma	irt IR	Yes	
Close Focus Dist	tance	0.6 m (1.97 ft)/1.2 m (3.94 ft)/2.5 m (8.20 ft)			Oft)	Defo	og	Yes
	Lens	Detect	Observe	Recognize	Identify	Flip		0°/90°/180°/270°
DORI Distance	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	Mirr	ror	Off/On
	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	Priva	acy Masking	Off/On (4 Area, Rectangle)
	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	Auc	dio	
Pan/Tilt/Rota	tion					Com	npression	G.711a, G.711Mu, G.726, AAC, G.723
Pan/Tilt/Rotation	on Range	Pan: 0°-360°; Tilt: 0°-78°; Rotation: 0°-360°			60°	Net	work	
Artificial Intel	ligence					Ethe	ernet	RJ-45 (10/100 Base-T)
Face Detection Perimeter Protection		Support face image capture Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking				Prot	rocol	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		detection and people gathering Support Line crossing/Region/Queueing people counting; Support 4 accesses independent			Inter	roperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P	
r copic counting		detection, 4 areas independent detection			Strea	aming Method	Unicast / Multicast	
General Intelligence					Max	. User Access	20 Users	
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Edge	e Storage	NAS;FTP;SFTP Micro SD card 256 GB
General Intelligence		Object Abandoned/Missing				Web	o Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Heat Map		Yes				Man	nagement Software	Smart PSS, DSS, DMSS
Video		U 265 U 264	H.265,H.264,H.264B,H.264H,				rt Phone	iOS, Android
Compression		H.265,H.264,H.264B,H.264H, MJPEG (sub stream)			Cer	tifications		

Pro Al Series | DH-IPC-HDW5241TM-AS-LED

Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
	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
Storage Conditions	-30° C to +60° C (-22° F to +140° F)
Ingress Protection	IP67

Construction

Casing	Metal
Dimensions	Φ106 mm × 93.6 mm (4.17" × 3.69")
Net Weight	0.54 kg (1.19 lb)
Gross Weight	0.71 kg (1.57 lb)

Ordering Information				
Type	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 AI Network Camera, WDR, PAL		
	IPC- HDW5241TMN- AS-LED	2MP WDR Eyeball AI Network Camera, WDR, NTSC		
	PFA130-E	Junction box		
	PFA151	Corner Mount		
Accessories	PFB204W	Wall Mount		
(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





PFB220C PFA152-E 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])





