

DH-IPC-HDW5241TM-AS

2MP WDR IR Eyeball AI Network Camera



System Overview

Pro AI 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.

- · 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 (ICR), 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. IR LEDs Length 50 m
- · Micro SD memory, IP67











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.

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					Stream	ing Capability	3 Streams
Camera			Resolu	tion	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)			
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS					Main Stream: 1080P (1 fps–25/30 fps)	
Effective Pixels		1920 (H) × 1080 (V)				Frame	Frame Rate	Sub Stream: D1 (1 fps-25/30 fps)
RAM/ROM		512 MB/128 MB						Third Stream: 1080P (1 fps–6 fps)
Scanning System		Progressive				Rit Rate	e Control	CBR/VBR
Electronic Shutte	er Speed	Auto/Manual, 1/3 s–1/100000 s						H.264: 32 Kbps-8192 Kbps
Minimum Illumin	ation	0.002 Lux@F1.6				Bit Rate		H.265: 19 Kbps–7424 Kbps
IR Distance		Distance up to 50 m (164 ft)				Day/Ni		Auto(ICR)/Color/B/W
IR On/Off Contro	l	Auto/Manual				BLC Mo	ode	BLC/HLC/WDR (120 dB)
IR LEDs		2	2				Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Lens							ontrol	Auto/Manual
Lens Type		Fixed-focal	Fixed-focal				Reduction	3D DNR
Mount Type		Board-in	Board-in			Motion	Detection	Off/On (4 Zone, Rectangle)
Focal Length		2.8 mm, 3.6 mm, 6.0 mm				Region	of Interest	Off/On (4 Zone)
Max. Aperture		F1.6				Electro (EIS)	nic Image Stabilization	N/A
Angle of View		H: 106°, V: 57	H: 106°, V: 57°/H: 87°, V: 46°/H: 53°, V: 30°				R	Yes
Aperture Type		Fixed				Defog		Yes
Close Focus Dista	ince	0.6 m (1.97 ft)/1.2 m (3.94 ft)/2.5 m (8.20 ft)				Flip		0°/90°/180°/270°
	Lens	Detect	Observe	Recognize	Identify	Mirror		Off/On
DORI Distance	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	Privacy	Masking	Off/On (4 Area, Rectangle)
DONI DISTANCE	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	Audio		
	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	Compr	ession	G.711a, G.711Mu, G.726, AAC, G.723
Pan/Tilt/Rotat	Pan/Tilt/Rotation		Netwo	Network				
Pan/Tilt/Rotation Range Pan:0°-360°; Tilt:0°-78°; Rotation:0°-360°			Ethern	et	RJ-45 (10/100 Base-T)			
Artificial Intelligence Face Detection Support face image capture			Protoco	lo	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			
Perimeter Protec	tion		usion (Recogr moving, loite			Interop	erability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
Terimeter Frotec	ction		d people gath		i, pai kilig	Stream	ing Method	Unicast/Multicast
People Counting		counting; Su	crossing/Reg	ses independe	ent	Max. U	ser Access	20 Users
General Intelli	detection, 4 areas independent detection General Intelligence			Edge St	orage	NAS;FTP;SFTP Micro SD card 256 GB		
Event Trigger cha		changing, Ne	Motion detection, Video tampering , Scene changing, Network disconnection , IP address				ewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
conflict, Illegal Access, Storage anomaly		Manag	ement Software	Smart PSS, DSS, DMSS				
General Intelligence Object Abandoned/Missing			Smart I	Phone	iOS, Android			
Heat Map Yes				Certifi	Certifications			
Video Compression		H.265,H.264,H.264B,H.264H, MJPEG (sub stream)				Certific	ations	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Smart Codec Yes					FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07			

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	<6.8W

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	Ф106 mm × 93.6 mm (4.17" × 3.69")
Net Weight	0.55 kg (1.21 lb)
Gross Weight	0.71 kg (1.57 lb)

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

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])





