

DH-IPC-HDBW5241R-ASE

2MP WDR IR Dome Al 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 and vandal resistant to IK10 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
- \cdot 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)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50 m
- · Micro SD memory, IP67, IK10











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.

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Protection(IP67, IK10, 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) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.



Technical Specification						Streaming Capability	3 Streams
Camera					Resolution	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 730)/D1 (704 × 576/704 × 480)/y/GA (640 × 480)/	
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS			RVIS™ CMOS	Resolution	× 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)
Effective Pixels		1920 (H) × 1080 (V)				Frame Rate	Main Stream: 1080P (1 fps-25/30 fps)
RAM/ROM		512 MB/128 MB					Sub Stream: D1 (1 fps-25/30 fps) Third Stream: 1080P (1 fps-6 fps)
Scanning System		Progressive				Bit Rate Control	CBR/VBR
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s				Bit Rate	H.264: 32 Kbps-8192 Kbps
Minimum Illumination		0.002 Lux@F1.6				Dou/Might	H.265: 19 Kbps—7424 Kbps
IR Distance		Distance up to 50 m (164 ft)				Day/Night	Auto(ICR)/Color/B/W
IR On/Off Contr	IR On/Off Control		1			BLC Mode	BLC/HLC/WDR (120 dB)
IR LEDs		1				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Lens						Gain Control	Auto/Manual
Lens Type		Fixed-focal				Noise Reduction	3D DNR
		Board-in				Motion Detection	Off/On (4 Zone, Rectangle)
	Mount Type					Region of Interest	Off/On (4 Zone)
Focal Length Max. Aperture	Focal Length May Aperture		mm, 6.0 mm			Electronic Image Stabilization (EIS)	N/A
Angle of View		F1.6 H: 106°, V: 57°/H: 87°, V: 46°/H: 53°, V: 30°				Smart IR	Yes
Aperture Type		Fixed				Defog	Yes
Close Focus Dist			t)/1 2 m (3 94	ft)/2 5 m (8 2	O ft)	Flip	0°/90°/180°/270°
0.000 1 0000 2.00	Lens	0.6 m (1.97 ft)/1.2 m (3.94 ft)/2.5 m (8.20 ft) Detect Observe Recognize Identify			Identify	Mirror	Off/On
	2.8mm	39m(128ft)	15m(49ft)	_	·	Privacy Masking	Off/On (4 Area, Rectangle)
DORI Distance	3.6mm	. ,		8m(26ft)	4m(13ft)	Audio	
		55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	Compression	G.711a, G.711Mu, G.726, AAC, G.723
D /T!!+ /D-+-	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	Network	
Pan/Tilt/Rota						Ethernet	RJ-45 (10/100 Base-T)
Pan/Tilt/Rotation		Pan: 0°–355°; Tilt: 0°–75°; Rotation: 0°–355°			55°	Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP
Artificial Intel	lligence						;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
Face Detection			image captur usion (Recogr		le and	Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
Perimeter Protec	ction	people), fast	moving, loite d people gath	ring detectior		Streaming Method	Unicast/Multicast
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent				Max. User Access	20 Users
detection, 4 areas independent General Intelligence			ident detectio	ווכ	Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB	
Event Trigger	-		ction, Video ta	nection , IP ac	ddress	Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
		conflict, Illegal Access, Storage anomaly				Management Software	Smart PSS, DSS, DMSS
General Intelligence		Object Abandoned/Missing				Smart Phone	iOS, Android
Heat Map		Yes				Certifications	
Video Compression		H.265,H.264,H.264B,H.264H, MJPEG (sub stream)				Certifications	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	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC

Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<5.5W

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
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Φ122 mm × 88.9 mm (4.80" × 3.50")
Net Weight	0.46 kg (1.01 lb)
Gross Weight	0.62 kg (1.37 lb)

Ordering Information				
Type	Part Number	Description		
	DH-IPC- HFW5241RP-ASE	2MP WDR IR Dome AI Network Camera, WDR, PAL		
2MP camera	DH-IPC- HFW5241RN-ASE	2MP WDR IR Dome AI Network Camera, WDR, NTSC		
	IPC-HFW5241RP- ASE	2MP WDR IR Dome AI Network Camera, WDR, PAL		
	IPC-HFW5241RN- ASE	2MP WDR IR Dome AI Network Camera, WDR, NTSC		
	PFA137	Junction box		
	PFB200C	Inceiling Mount		
	PFA200W	Rain Shade		
Accessories	PFA123	Junction box		
(optional)	PFB203W	Wall Mount		
	PFA152-E	Pole Mount		
	PFA106	Mount Adapter		
	PFB220C	Ceiling Mount		

Accessories

Optional:









PFA137 Junction box

PFB200C Inceiling Mount

PFA200W Rain Shade

PFA123 Junction box









PFB203W Wall Mount

PFA152-E Pole Mount

PFA106 Mount Adapter

PFB220C Ceiling Mount



LR1002 ePoE Over Coax Converter

Junction Mount	Inceiling Mount	Wall Mount with Rain Shade	Junction Mount
PFA137	PFB200C	PFA200W	PFA123
	6		
Wall Mount	Pole Mount	Ceiling Mount	
PFB203W	PFB203W + PFA152-E	PFA106+ PFB220C	

Dimensions (mm[inch])





