

DH-IPC-HDBW5242R-ASE-MF

2MP Pro Al IR Fixed-focal Dome 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.

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" 2Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- \cdot 50/60 fps@1080P(1920 × 1080)
- · WDR (140 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











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 $\pm 30\%$ 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) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.



Technical Sp	ecification						1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280
Camera					Resolution	× 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)	
Image Sensor		1/1.8" 2Megapixel progressive scan CMOS					Main Stream: 1920 × 1080 (1 fps–50/60 fps)
Effective Pixels		1920 (H) × 1080 (V)				Frame Rate	Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)
RAM/ROM		1GB/128 MB					Third Stream: 1080P (1 fps–16 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		0.002Lux@F1.6					H.265: 19 Kbps-8192 Kbps
IR Distance		Distance up to 50 m (164 ft)				Day/Night	Auto(ICR)/Color/B/W
IR On/Off Control		Auto/Manual				BLC Mode	BLC/HLC/WDR (140 dB)
IR LEDs		1				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Lens						Gain Control	Auto/Manual
Lens Type		Fixed-focal	Fixed-focal			Noise Reduction	3D DNR
Mount Type		Board-in	Board-in			Motion Detection	Off/On (4 Zone, Rectangle)
Focal Length		2.8 mm, 3.6	2.8 mm, 3.6 mm, 6.0 mm			Region of Interest	Off/On (4 Zone)
Max. Aperture		F1.6				Electronic Image Stabilization (EIS)	N/A
Angle of View		H: 113°, V: 60°/H: 89°, V: 48°/H: 56°, V: 31°			1°	Smart IR	Yes
Aperture Type		Fixed				Defog	Yes
Close Focus Distance		1.3 m (4.27 ft)/1.9 m (6.23 ft)/3.8 m (12.47 ft)				Flip	0°/90°/180°/270°
	Lens	Detect	Observe	Recognize	Identify	Mirror	Off/On
	2.8mm	41.4m (135.8ft)	16.6m (54.5ft)	8.3m (27.2ft)	4.1m (13.5ft)	Privacy Masking	Off/On (4 Area, Rectangle)
DORI Distance	3.6mm	51.2m	20.5m	10.2m	5.1m	Audio	
	6.0mm	(168.0ft) 80.8m	(67.3ft) O:32.3m	(33.5ft) 16.2m	(16.7ft) 8.1m	Compression	G.711a, G.711Mu, G.726, AAC, G.723
Pan/Tilt/Rota		(265.1ft)	(106.0ft)	(53.1ft)	(26.6ft)	Network	
						Ethernet	RJ-45 (10/100 Base-T)
Pan/Tilt/Rotation Artificial Intel	-	Pan: 0"–355", Tilt: 0"–75"; Rotation: 0"–355"			55	Protocol	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
Face Detection			Support face image capture			Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
Perimeter Protec	tion	people), fast	Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering			Streaming Method	Unicast/Multicast
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent				Max. User Access	20 Users
	igence	detection, 4	areas indepe	ndent detection	on	Edge Storage	NAS;FTP;SFTP Micro SD card (support max. 256 G)
General Intelligence Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address				Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
General Intelligence		conflict, Illegal Access,Storage anomaly Object Abandoned/Missing				Management Software	Smart PSS, DSS, DMSS
_		Yes				Smart Phone	iOS, Android
Heat Map Video		100				Certifications	
Compression		H.265,H.264,H.264B,H.264H, MJPEG (sub stream)					CE-LVD: EN60950-1
Smart Codec		Yes				Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Streaming Capability		3 Streams					UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
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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	<6.1W

Environmental

Operating Conditions	-40° C to +60° C (-40° F to +140° F)/Less than 95% RH
Storage conditions	-40° C to +60° C (-40° F to +140° F)
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Φ122.0 mm × 88.9 mm (4.80" × 3.50")
Net Weight	0.47 kg (1.04 lb)
Gross Weight	0.63 kg (1.39 lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HDBW5242RP- ASE-MF	2MP Pro AI IR Fixed-focal Dome Network Camera,WDR, PAL		
4MP camera	DH-IPC- HDBW5242RN- ASE-MF	2MP Pro AI IR Fixed-focal Dome Network Camera,WDR, NTSC		
	IPC-HDBW5242RP- ASE-MF	2MP Pro Al IR Fixed-focal Dome Network Camera,WDR, PAL		
	IPC-HDBW5242RN- ASE-MF	2MP Pro Al IR Fixed-focal Dome 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
	(S)		
Wall Mount	Pole Mount	Ceiling Mount	
PFB203W	PFB203W + PFA152-E	PFA106+ PFB220C	

Dimensions (mm[inch])





