

DH-IPC-HDBW5442R-S

4MP WDR IR Dome Al Network Camera



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 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.

- · 1/1.8" 4Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- · 25/30 fps@2688 × 1520, 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)
- · 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.

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	pecification					Streaming Capability	3 Streams
Camera							2688 × 1520/2560 × 1440/2304 × 1296/1080P
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS				Resolution	(1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
Effective Pixels		2688 (H) × 1520 (V)				Frame Rate	Main Stream: 2688 × 1520 (1 fps-25/30 fps) 2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps)
RAM/ROM		512 MB/128 MB					
Scanning System		Progressive					Sub Stream: D1 (1 fps-25/30 fps)
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s					D1 (1 fps-50/60 fps)
Minimum Illumination		0.002 Lux@F1.6					Third Stream: 1080P (1 fps–16 fps)
IR Distance		Distance up to 50 m (164 ft)				Bit Rate Control	CBR/VBR
IR On/Off Control		Auto/Manual				Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
IR LEDs		1				Day/Night	Auto(ICR)/Color/B/W
Lens						BLC Mode	BLC/HLC/WDR (140 dB)
Lens Type		Fixed-focal				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Mount Type		Board-in				Gain Control	Auto/Manual
Focal Length		2.8 mm, 3.6 mm, 6.0 mm				Noise Reduction	3D DNR
Max. Aperture		F1.6				Motion Detection	Off/On (4 Zone, Rectangle)
Angle of View		H: 113°, V: 60	0°/H: 89°, V: 48	3°/H: 56°, V: 3	1°	Region of Interest	Off/On (4 Zone)
Aperture Type		Fixed				Electronic Image Stabilization (EIS)	N/A
Close Focus Dist	Close Focus Distance		t)/1.9 m (6.23	ft)/3.8 m (12.	47 ft)	Smart IR	Yes
	Lens	Detect	Observe	Recognize	Identify	Defog	Yes
DORI Distance	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)	Flip	0°/90°/180°/270°
	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)	Mirror	Off/On
	6mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)	Privacy Masking	Off/On (4 Area, Rectangle)
Pan/Tilt/Rota						Audio	
Pan/Tilt/Rotation Range		Pan: 0°–355°; Tilt: 0°–75°; Rotation: 0°–355°				Compression	N/A
Artificial Intel	lligence					Network	
Face Detection		Support face image capture				Ethernet	RJ-45 (10/100 Base-T)
Perimeter Protec	tion	Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering				Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP
People Counting		counting; Su	crossing/Reg	ses independ	ent	1100001	;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
detection, 4 areas independent detection General Intelligence			on	Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P		
		Motion detection, Video tampering , Scene changing, Network disconnection , IP address				Streaming Method	Unicast/Multicast
Event Trigger			al Access, Sto			Max. User Access	20 Users
General Intelligence		Object Abandoned/Missing Yes				Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB
Heat Map Video		103				Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Compression		H.265,H.264,H.264B,H.264H, MJPEG (sub stream)				Management Software	Smart PSS, DSS, DMSS
Smart Codec		Yes				Smart Phone	iOS, Android

Certifications

Interface

Audio Interface	N/A
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<5.8W

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
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Φ122.0 mm × 88.9 mm (4.80" × 3.50")
Net Weight	0.45 kg (0.99 lb)
Gross Weight	0.61 kg (1.34 lb)

Ordering Information Туре Part Number Description DH-IPC-4MP WDR IR Dome Al Network Camera, HDBW5442RP-S WDR, PAL DH-IPC-4MP WDR IR Dome AI Network Camera, HDBW5442RN-S WDR, NTSC 4MP camera 4MP WDR IR Dome Al Network Camera, IPC-HDBW5442RP-S WDR, PAL IPC-4MP WDR IR Dome Al Network Camera, HDBW5442RN-S WDR, NTSC PFA137 Junction box PFB200C Inceiling Mount PFA200W Rain Shade PFA123 Junction box Accessories (optional) PFB203W Wall Mount PFA152-E Pole Mount PFA106 Mount Adapter PFB220C Ceiling Mount

Accessories

Optional:









Junction box

PFB200C Inceiling Mount

PFA200W Rain Shade

PFA123 Junction box









PFB203W Wall Mount

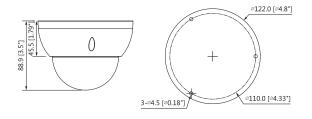
PFA152-E Pole Mount

PFA106 Mount Adapter

PFB220C Ceiling Mount

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	
		Q Q	

Dimensions (mm[inch])





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