

DH-IPC-HDBW5241R-S

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
- · 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)
- · 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 Specification						Streaming Capability	3 Streams	
Camera				Resolution	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" 2Mega	apixel progres	sive scan STAR	VIS™ CMOS		Main Stream: 1080P (1 fps–25/30 fps)	
Effective Pixels		1920 (H) × 1080 (V)				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				Bit Rate Control	CBR/VBR	
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s				Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–7424 Kbps	
Minimum Illumination		0.002 Lux@F1.6				Day/Night	Auto(ICR)/Color/B/W	
IR Distance		Distance up to 50 m (164 ft)				BLC Mode	BLC/HLC/WDR (120 dB)	
IR On/Off Control		Auto/ Manual				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
IR LEDs		1				Gain Control	Auto/Manual	
Lens						Noise Reduction	3D DNR	
Lens Type		Fixed-focal				Motion Detection	Off/On (4 Zone, Rectangle)	
Mount Type		Board-in				Region of Interest	Off/On (4 Zone)	
Focal Length		2.8 mm, 3.6 mm, 6.0 mm				Electronic Image Stabilization (EIS)	N/A	
Max. Aperture		F1.6				Smart IR	Yes	
Angle of View		H: 106°, V: 57	'°/H: 87°, V: 4	6°/H: 53°, V: 30)°	Defog	Yes	
Aperture Type		Fixed				Flip	0°/90°/180°/270°	
Close Focus Distance		0.6 m (1.97 ft	i)/1.2 m (3.94	ft)/2.5 m(8.20) ft)	Mirror	Off/On	
	Lens	Detect	Observe	Recognize	Identify	Privacy Masking	Off/On (4 Area, Rectangle)	
DORI Distance	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	Audio		
	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	Compression	N/A	
	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	Network		
Pan/Tilt/Rotat	tion							
Pan/Tilt/Rotation	n Range	Pan: 0°-355°;	Tilt: 0°–75°; F	Rotation: 0°–3!	55°	Ethernet	RJ-45 (10/100 Base-T)	
Artificial Intell	ligence	Command form	:			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;SNMF	
Face Detection			usion (Recogr	nition of vehic ring detection		Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P	
Perimeter Protection		detection an			i, parking	Streaming Method	Unicast/Multicast	
People Counting		counting; Sup	oport 4 acces	ion/Queueing ses independe	ent	Max. User Access	20 Users	
detection, 4 areas independent detection General Intelligence				ident detectio	on	Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB	
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)	
				rage anomaly	ui Coo	Management Software	Smart PSS, DSS, DMSS	
General Intellige	nce	Object Abandoned/Missing				Smart Phone	iOS, Android	
Heat Map		Yes				Certifications	Certifications	
Video							CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive	
Compression		H.265,H.264,H.264B,H.264H, MJPEG (sub stream)				Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Smart Codec		Yes					OL/ COL. OLOUSSU-1 CAN/ CSA CZZ.Z NO.00350-1-0/	

Interface

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

Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<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	0.43 kg (0.95 lb)
Gross Weight	0.59 kg (1.30 lb)

Ordering Information Part Number Туре Description DH-IPC-2MP WDR IR Dome Al Network Camera, HDBW5241RP-S WDR, PAL DH-IPC-2MP WDR IR Dome Al Network Camera, HDBW5241RN-S 2MP camera 2MP WDR IR Dome Al Network Camera, IPC-HDBW5241RP-S WDR, PAL 2MP WDR IR Dome Al Network Camera, HDBW5241RN-S WDR, NTSC PFA137 Junction box PFB200C Inceiling Mount PFA200W Rain Shade Junction box PFA123 Accessories (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











PFA106 Mount Adapter



PFB220C Ceiling Mount

Junction Mount	Inceiling Mount	Wall Mount with Rain Shade	Junction Mount
PFA137	PFB200C	PFA200W	PFA123
	5		
Wall Mount	Pole Mount	Ceiling Mount	
PFB203W	PFB203W + PFA152-E	PFA106+ PFB220C	
		TD TD	

Dimensions (mm[inch])



