

DH-IPC-HDBW5241R-ASE

2MP WDR IR Dome Al Network Camera





Dahua AI series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua AI series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. The complete lineup of Dahua AI includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

Pro AI series contains Face Capture, 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 Capture

Face capture 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.

Face Attributes

Through the use of deep learning algorithms to analyze facial images, Dahua cameras can extract six facial attributes from each frame, including Age, Gender, Expression (Jolly/Surprise/Normal/Rage/Sad/Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard. Customers can acquire data of interest via face attributes statistics.

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

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm/6mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 40m
- · Micro SD memory, IP67, IK10













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.

Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Dahua face detection camera can extract six facial attributes and output the metadata for analysis.

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						Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(128 0×720)/D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)	
Camera						Frame Rate	Main Stream: 1080P(1~25/30fps)	
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS						Sub Stream: D1(1~25/30fps)
Effective Pixels		1920(H) x 1080(V)					Third Stream: 1080P(1~6fps)	
RAM/ROM		512MB/128MB					Bit Rate Control	CBR/VBR
Scanning System		Progressive					Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 7424Kbps
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Day/Night	Auto(ICR) / Color / B/W
Minimum Illumination		0.002Lux/F1.6 (Color,1/3s,30IRE) 0.012Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)					BLC Mode	BLC / HLC / WDR(120dB)
IR Distance		Distance up to 40m (131ft)					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR On/Off Contr	·ol	Auto/ Manual					Gain Control	Auto/Manual
IR LEDs		1				Noise Reduction	3D DNR	
Lens							Motion Detetion	Off / On (4 Zone, Rectangle)
Lens Type		Fixed	Fixed				Region of Interest	Off / On (4 Zone)
Mount Type		Board-in				Electronic Image Stabilization (EIS)	N/A	
Focal Length		2.8mm,3.6mm,6.0mm				Smart IR	Support	
Max. Aperture		F1.6				Defog	Support	
Angle of View		H: 106°, V:57°/H: 87°, V:46°/H: 53°, V:30°				Digital Zoom	N/A	
Optical Zoom	Optical Zoom		N/A				Flip	0°/90°/180°/270°
Aperture Type		Fixed				Mirror	Off / On	
Close Focus Dis	tance	0.6m(1.97ft)/1.2m(3.94t)/2.5m(8.20ft)				Privacy Masking	Off / On (4 Area, Rectangle)	
	Lens	Detect	Observe	Recognize	Identify		Audio	
DORI Distance	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)		Compression	G.711a/G.711Mu/G.726/AAC/G.723
	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)		Network	
	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)		Ethernet	RJ-45 (10/100Base-T)
Pan/Tilt/Rota	ntion				Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP;SMTP;		
Pan/Tilt/Rotation	on Range	Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°					FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP;QoS; UPnP;NTP	
Artificial Inte	lligence						Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P
Face Capture		Support face image capture					Streaming Method	Unicast / Multicast
Face Attributes		Support 6 kinds of face attributes extraction: Age, Gender,Expression(Jolly/Surprise/Normal/ Rage/Sad/Disgusted/Confused/Frightened),				Max. User Access	20 Users	
Perimeter Protec	ction	Glasses, Mouth Mask, Moustache & Beard Tripwire, Intrusion (Human & Vehicle classification)					Edge Storage	NAS FTP Mirco SD card 256GB
People Counting		Line crossing people counting, Region people counting					Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
General Intel	ligence					Management Software	Smart PSS, DSS, P2P	
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address				Smart Phone	iOS, Android	
General Intelligence		Chiect Abandoned/Missing				Certifications		
-		Object Abandoned/Missing				Certifications	CE-LVD:EN60950-1 CE-EMC:Electromagnetic Compatibility Directive	
Video Compression		H.265+/H.265/H.264+/H.264/H.264B/H.264H/ MJPEG(sub stream)					2014/30/EU FCC:47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Streaming Capability		3 Streams						

Interface

Video Interface	N/A
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC

Electrical

Power Supply	DC12V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:2.3W 4.8W(IR on) PoE:2.8W 5.5W(IR on)

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / 10%RH~95% RH
Strorage Conditions	+5° C $^{\sim}$ +40° C (+41° F $^{\sim}$ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH $^{\sim}$ 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Ф122mm×88.9mm (4.80"×3.50")
Net Weight	0.46Kg (1.01lb)
Gross Weight	0.62Kg (1.37lb)

Ordering Information				
Туре	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 Al 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 nt 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)



