

# DH-IPC-HDBW3241R-ZAS

2MP Lite AI IR Vari-focal Dome Network Camera



System Overview

With advanced deep learning algorithm, Dahua Lite AI series network camera supports some intelligent functions, such as perimeter protection and smart motion detection. It adopts starlight solution, which makes a better image effect in low illuminance.

#### **Functions**

#### Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

## Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

## Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080)@30 fps
- H.265 codec, high compression rate, low bit rate
- · Built-in IR LED. max. IR distance: 40 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, scene changing, audio abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card
- 12V DC/POE power support
- IP67, IK10 protection
- · SMD













#### Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

## **Smart Motion Detection (SMD)**

With intelligent algorithm, Dahua Smart Motion Detection technology can effectively recognize the target types, flitting the motion detection alarm triggered by non-concerned target types. It can realize effective and accurate alarm.

#### Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 m (Impact energy is 20J).

Wide voltage: The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification							BLC	Yes
Camera				HLC	Yes			
Image Sensor		1/2.8" 2Megapixel progressive CMOS					WDR	120 dB
Effective Pixels		1920 (H) ×1080 (V)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
ROM	ROM						Gain Control	Auto/Manual
RAM		256 MB					Noise Reduction	3D DNR
Scanning System		Progressive					Motion Detection	OFF/ON (4 areas, rectangular)
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Region of Interest(RoI)	Yes (4 areas)
Min. Illumination		0.002 Lux@F1.5					Smart IR	Yes
IR Distance		40 m (131.23 ft)					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
IR On/Off Control		Auto/Manual					Mirror	resolution.) Yes
IR LEDs Number		2 (IR LEDs)						4 areas
Pan/Tilt/Rotatio	n Range	Horizontal: 0°–355°; vertical: 0°–75°; rotation: 0°–355°					Privacy Masking	4 aleas
Lens							Audio	
Lens Type		Motorized vari-focal					Audio Compression	G.711a; G.711Mu; G726; AAC
Mount Type	Mount Type						Network	
Focal Length		2.7 mm-13.5 mm					Network	RJ-45 (10/100 Base-T)
Max. Aperture	Max. Aperture		08°–28°				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
Field of View		Vertical: 57° - Diagonal: 130					Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Iris Type		Fixed aperture					Scene Self-adaptation	Yes
Close Focus Distance		0.8 m (2.6 ft)					User/Host	20 (Total bandwidth: 64 M)
	Lens	Detect	Observe	Recognize	Identify		Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
DORI Distance	W T	44.1 m (144.7 ft) 153.1 m (502.3 ft)	17.6 m (57.7 ft) 61.2 m (200.8 ft)	8.8 m (28.9 ft) 30.6 m (82.9 ft)	4.4 m (14.4 ft) 15.3 m (50.2 ft)		Browser	IE: IE8, IE9, IE11 Chrome Firefox
Professional,	Intellig		(200.8 It)	(62.511)	(30.2 It)		Management Software	Smart PSS, DSS, DMSS
Perimeter Protec			usion (Recogni	tion of human	and vehicle)		Mobile Phone	IOS; Android
. c.i.i.etc rote.			, ,	NVR to perform			Certification	
Intelligent Search	Intelligent Search		arch, event ext	raction and me	erging to event			CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive
	ion	U 265 · U 264	· ⊔ 264U· U 26	AR: MIDEG			Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG						UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Smart Codec		Yes  Main stream (1920 × 1080@1–25/30 fps)					Port	
Video Frame Rate		sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)					Audio Input	1-channel (RCA port)
Stream Capability		3 streams					Audio Output	1-channel (RCA port)
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Alarm Input	1 channel in: 5mA 3V–5V DC
Bit Rate Control		CBR/VBR					Alarm Output	1 channel out: 300mA 12V DC
Video Bit Rate		H.264: 3 Kbps-8192 Kbps					Power Supply	12V DC/PoE (802.3af)
		H.265: 3 Kbps-8192 Kbps						
Day/Night		Auto(ICR)/Color/B/W					Power Consumption	<8W

### Environment

Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than≤95%			
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)			
Ingress Protection	IP67; IK10			

#### Structure

Casing	Metal
Dimensions	Φ122 mm × 88.9 mm (Φ4.8" × 3.5")
Net Weight	492 g (1.1 lb)
Gross Weight	663 g (1.5 lb)

#### **Ordering Information** Type Part Number Description 2MP Lite AI IR Vari-focal Dome DH-IPC-HDBW3241RP-ZAS Network Camera, PAL 2MP Camera 2MP Lite AI IR Vari-focal Dome DH-IPC-HDBW3241RN-ZAS Network Camera,NTSC PFA137 PFB203W Wall Mount PFA152-E Pole Mount PFA200W Rain Shade PFA106 Mount Adapter PFB220C Celling Mount Accessories (optional) PFB200C In-Celling Mount DC12V1A Power Adapter PFM321D Single-port Long Reach Ethernet LR1002-1ET/1EC over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

### **Accessories**

## Optional:







PFA137 Junction Box

37 PFB203W n Box Wall Moun

PFB203W PFA152-E Wall Mount Pole Mount







PFA200W Rain Shade

V PFA106 de Mount Adapter

PFB220C er Celling Mount







PFB200C In-Celling Mount

PFM321D DC12V1A Power Adapter

LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFM900-E Integrated Mount tester



PFM114 TLC SD card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA137	PFA137+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount	In-Ceiling Mount		
PFA106+PFB220C	PFB200C		
	<b>6</b>		

## Dimensions (mm[inch])





