

# DH-IPC-HDBW1431R-ZS-S4

4MP Entry IR Vari-focal Dome Netwok Camera



- $\cdot$  4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440) @25/30 fps, and supports max. 4MP (2688 × 1520) @20 fps
- H.265 codec, high compression rate, ultra-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
- Image flip, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Abnormality detection: Motion detection, video tampering, no SD
- card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 GB SD card
- 12V DC/PoE power support
- •IP67, IK10 protection



### Smart IR

Dahua Smart IR technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts IR LEDs intensity automatically to display the details of the moving target.

### 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.

### System Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry Series camera is applicable to small and medium-sized scenes, such as homes/residences, small-sized retail stores, and other small and medium-sized enterprises.

### **Functions**

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

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

### **Motion Detection**

When moving objects appear in the monitoring image, Dahua Motion Detection (General) technology triggers alarm or records.

### Wide Dynamic Range (WDR)

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.



# Entry Series |DH-IPC-HDBW1431R-ZS-S4

### **Technical Specification**

Camera						
Image Sensor		1/3 "4Megapixel progressive CMOS				
Effective Pixels		2688 (H) ×1520 (V)				
ROM		128 MB				
RAM		128 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				
Min. Illumination		0.03 Lux @ F1.7				
IR Distance		40 m (164.0 ft)				
IR On/Off Control		Auto/Manual				
IR LEDs Number		2				
Pan/Tilt/Rotation Range		Horizontal: 0°–355° Vertical: 0°–75° Rotation: 0°–355°				
Lens						
Lens Type		Motorized vari-focal				
Mount Type		φ14				
Focal Length		2.8 mm-12 mm				
Max. Aperture		F1.7				
Field of View		Horizontal: 98°–31° Vertical: 55°–18° Diagonal: 116°–36°				
Iris Type		Fixed aperture				
Close Focus Distance		0.8 m (2.6 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	66.0 m (183.7 ft)	26.4 m (73.5 ft)	13.2 m (36.7 ft)	6.6 m (18.4 ft)	
	т	200.0 m (656.2 ft)	80.0 m (262.5 ft)	40.0m (131.2 ft)	20.0 m (65.6 ft)	
Video						
Video Compressi	on	H.265; H.264; H.264B; MJPEG				
Smart Codec		Yes				
Video Frame Rate		Main Stream: 2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) Sub Stream: 704 × 576 (1 fps–20/25 fps) 704 × 480 (1 fps–20/30 fps)				
Stream Capability		2 streams				
Resolution		2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 ×240)				

Bit Rate Control	CBR; VBR				
Video Bit Rate	H.264: 32 Kbps–6144 Kbps H.265: 12 Kbps–6144 Kbps				
Day/Night	Auto(ICR)/Color/B/W				
BLC	Yes				
HLC	Yes				
WDR	120 dB				
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom				
Gain Control	Manual/Auto				
Noise Reduction	3D DNR				
Motion Detection	OFF/ON (4 areas, rectangular)				
Region of Interest(Rol)	Yes (4 areas)				
Smart IR	Yes				
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution.)				
Mirror	Yes				
Privacy Masking	4 areas				
Network					
Network	RJ-45 (10/100 Base-T)				
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP				
Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec; P2P				
User/Host	20				
Edge Storage	Dahua Cloud; FTP; Micro SD card (support max. 256 GB); NAS				
Browser	IE Chrome Firefox				
Management Software	Smart PSS; DSS; DMSS				
Mobile Phone	IOS; Android				
Certification					
Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B				
Power					
Power Supply	12V DC/POE (802.3af)				
Power Consumption	< 6.4W				
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				

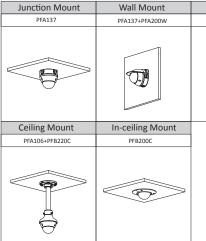
## Entry Series |DH-IPC-HDBW1431R-ZS-S4

#### Structure

Casing	Metal
Dimensions	88.9 mm × Φ122 mm (3.5" × Φ4.8")
Net Weight	0.46 kg (1.0 lb)
Gross Weight	0.64 kg (1.4 lb)

### **Ordering Information**

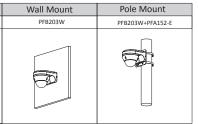
Туре	Part Number	Description	
4MP Camera	DH-IPC-HDBW1431RP-ZS-S4	4MP Entry IR Vari-focal Dome Netwok Camera,PAL	
	DH-IPC-HDBW1431RN-ZS-S4	4MP Entry IR Vari-focal Dome Netwok Camera,NTSC	
Accessories (optional)	PFA137	Junction Box	
	PFA200W	Rain Shade	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
	PFA106	Mount Adapter	
	PFB220C	Ceiling Mount	
	PFB200C	In-ceiling 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	



PFM900-E

Integrated Mount

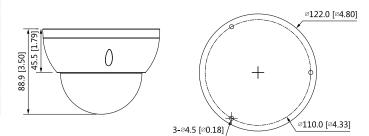
tester



PFM114

TLC SD card

### Dimensions (mm[inch])



### Accessories

### **Optional:**



PFA137 Junction Box

PFA200W Rain Shade



PFA152-E Pole Mount



PFB200C In-Ceilling Mount



PFA106 Mount Adapter



PFM321D DC12V1A Power Adapter



PFB203W Wall Mount

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

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