

DH-IPC-HDBW1431R-ZS-S4

4MP Entry IR Vari-focal Dome Network Camera



- 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 Rotation, WDR, 3D NR, 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 supply
- IP67, IK10 protection













Series 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+ & Smart 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.

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.

Smart Illumination

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

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from comprising the device.

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 cm (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 Sp	ecificatio	on					2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440);
Camera						Resolution	2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×
Image Sensor		1/3 "4Megapixel progressive CMOS					480); VGA (640 × 480); CIF (352 × 288/352 ×240)
Max. Resolution		2688 (H) × 1520 (V)				Bit Rate Control	CBR; VBR
ROM		128 MB				Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
RAM		128 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual	1/3 s-1/1000	00 s		HLC	Yes
S/N Ratio	S/N Ratio					WDR	120 dB
Min. Illumination		0.03 Lux @ F1.7				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illumination Dist	ance	40 m (164.0 ft)				Gain Control	Manual/Auto
Illuminator On/C	Off Control	Auto/Manual				Noise Reduction	3D NR
Illuminator Num	ber	2 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotatio	n Range	Pan: 0°–355° Tilt: 0°–75°				Region of Interest(RoI)	Yes (4 areas)
. any my notatio	age	Rotation: 0°–	355°			Smart Illumination	Yes
Lens						Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower.)
Lens Type		Motorized va	ri-tocal			Mirror	Yes
Mount Type		ф14				Privacy Masking	4 areas
Focal Length		2.8 mm-12 mm				Alarm	
Max. Aperture Field of View		F1.7 Horizontal: 98°–31° Vertical: 55°–18°				Alarm Event	Network disconnection; IP conflict; motion detection; video tampering; illegal access; voltage detection; security exception; defocus detection;
		Diagonal: 116°–36°				Network	
Iris Type		Fixed				Network	RJ-45 (10/100 Base-T)
Close Focus Dista	ance	0.8 m (2.6 ft)				SDK and API	Yes
	Lens W	Detect 66.0 m (183.7 ft)	Observe 26.4 m (73.5 ft)	13.2 m (36.7 ft)	6.6 m (18.4 ft)	Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
DORI Distance	T *DORI (D				20.0 m (65.6 ft) dard system	Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
	video to d	6-4) for definin distinguish pers bers in this tabl	ons or objects	within a covere	ed area.	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
		. For intelligent oning manual/			stallation and	User/Host	20
Video						Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Video Compression		H.265; H.264 by sub stream		G(only suppor	ted	Browser	IE Chrome Firefox
Smart Codec		Smart H.265+/ Smart H.264+				Management Software	Smart PSS; DSS; DMSS
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)				Mobile Phone	IOS; Android
						Certification	55 U.D. 51450404 d
Stream Capability		704 × 376 (1 fps=20/23 fps) 704 × 480 (1 fps=20/30 fps) 2 streams				Certifications	CE-LVD: EN62368-1 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)		
Protection	IP67; IK10		

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 Part Number Description Type 4MP Entry IR Vari-focal Dome DH-IPC-HDBW1431RP-ZS-S4 Network Camera, PAL 4MP Camera 4MP Entry IR Vari-focal Dome DH-IPC-HDBW1431RN-ZS-S4 Network Camera, NTSC PFA137 Junction Box PFB203W Wall Mount PFA152-E Pole Mount PFA106 Mount Adapter PFB220C Ceiling Mount Accessories (optional) PFB200C In-ceiling Mount 12V DC 1A 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

PFB203W Wall Mount

PFA152-E Pole Mount







PFA106 Mount Adapter

PFB220C Celling Mount

PFB200C In-Ceilling Mount



PFM321D 12V DC 1A Power Adapter



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



PFM900-E Integrated Mount tester



PFM114 TLC SD card

Junction Mount	Wa ll Mount	Ce ili ng Mount
Pole Mount(Vertical)	In-Celling Mount	

Dimensions (mm[inch])



