

# DH-IPC-HDBW1431R-ZS

4MP Entry IR Vari-focal Dome Netwok Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560  $\times$  1440) @25/30 fps, and supports max. 4MP (2688  $\times$  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













## **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.

#### **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.



Technical Specification							Bit Rate Control	CBR; VBR
Camera							Video Bit Rate	H.264: 32 Kbps-6144 Kbps
Image Sensor		1/3 "4Megapixel progressive CMOS						H.265: 12 Kbps-6144 Kbps
Effective Pixels		2688 (H) ×1520 (V)					Day/Night	Auto(ICR)/Color/B/W
ROM		128 MB					BLC	Yes
RAM		128 MB					HLC	Yes
Scanning System		Progressive					WDR	120 dB
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Min. Illumination		0.03 Lux @ F1.7					Gain Control	Manual/Auto
IR Distance		40 m (164.0 ft)					Noise Reduction	3D DNR
IR On/Off Control		Auto/Manual					Motion Detection	OFF/ON (4 areas, rectangular)
IR LEDs Number		2					Region of Interest(RoI)	Yes (4 areas)
IN LEDS NUMBER		Horizontal: 0°–355°					Smart IR	Yes
Pan/Tilt/Rotation Range		Vertical: 0°−75° Rotation: 0°−355°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution.)
Lens							Mirror	Yes
Lens Type	Lens Type		Motorized vari-focal				Privacy Masking	4 areas
Mount Type		ф14					Network	
Focal Length		2.8 mm-12 mm					Network	RJ-45 (10/100 Base-T)
Max. Aperture		F1.7					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
Field of View		Horizontal: 98°-31° Vertical: 55°-18° Diagonal: 116°-36°						
Iris Type		Fixed aperture					Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec; P2P
Close Focus Distance		0.8 m (2.6 ft)					User/Host	20
	Lens	Detect	Observe	Recognize	Identify		Edge Storage	Dahua Cloud; FTP; Micro SD card (support max. 256 GB); NAS
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)		Browser	IE Chrome Firefox
	Т	200.0 m (656.2 ft)	80.0 m (262.5 ft)	40.0m (131.2 ft)	20.0 m (65.6 ft)		Management Software	Smart PSS; DSS; DMSS
Video							Mobile Phone	IOS; Android
Video Compression		H.265; H.264; H.264B; MJPEG					Certification	
Smart Codec		Yes					Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
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)						FCC: 47 CFR FCC Part 15, Subpart B
							Power	
							Power Supply	12V DC/POE (802.3af)
Stream Capability		2 streams					Power Consumption	< 6.4W
,							Environment	
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)					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