

DH-IPC-HDBW2431R-ZAS-S2

4MP Lite IR Vari-focal Dome Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, Max. supports 4MP (2688 × 1520)@20 fps
- · Support Triple Stream
- 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
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal ac- cess, voltage detection
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- 12V DC/PoE power supply
- IP67, IK10 protection















Series Overview

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

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.

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.

Starlight

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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 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					Day/Night	H.265: 12 kbps–6144 kbps Auto(ICR)/Color/B/W
Max. Resolution		2688 (H) × 1520 (V)					BLC	Yes
ROM		128 MB					HLC	Yes
RAM		128 MB					WDR	120 dB
Scanning System		Progressive					WDK	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Min. Illuminatio	n	0.008 Lux @ F1.5					Gain Control	Auto/Manual
S/N Ratio		>56 dB					Noise Reduction	3D NR
Illumination Distance		40 m (131.23 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/0	Off Control	Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
Illuminator Number		2 (IR LED)					Smart Illumination	Yes
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
Lens							Mirror	Yes
Lens Type		Motorized vari-focal					Privacy Masking	4 areas
Mount Type		ф14					Audio	
Focal Length		2.7 mm-13.5 mm					Audio Compression	G.711a; G.711Mu; G.726
						Alarm		
Max. Aperture Field of View		F1.5 Horizontal: 104°–27° Vertical: 55°–15° Diagonal: 124°–31°					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception; local alarm
Iris Type		Fixed					Network	
Close Focus Distance		0.8 m-0.8 m (2.62 ft-2.62 ft)					Network	RJ-45 (10/100 Base-T)
	Lens	Detect	Observe	Recognize	Identify		SDK and API	Yes
DORI Distance	W	64 m	25.6 m	12.8 m	6.4 m		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
	Т	(209.97 ft) 220 m (721.78 ft)	(83.99 ft) 88 m (288.71 ft)	(41.99 ft) 44 m (144.36 ft)	(21 ft) 22 m (72.18 ft)			
Smart Event							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
IVS		Tripwire; intrusion						
Video Compress	ion	H.265; H.264; H.264B; MJPEG (only supported by the					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
·		sub stream)					User/Host	20
Smart Codec		Smart H.265+/ Smart H.264+					Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
Video Frame Rate		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps); 704 × 480 (1 fps-30 fps)					Browser	IE Chrome Firefox
Stroam Canability		Third stream: CIF@1fps					Management Software	Smart PSS; DSS; DMSS
Stream Capability		3 streams 2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440);					Mobile Phone	IOS; Android
Resolution		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)					Certification	