

DH-IPC-HDBW2431E-S-S2

4MP Lite IR Fixed-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
- H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 30 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 access, voltage detection
- · 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.



Lite Series | DH-IPC-HDBW2431E-S-S2

Technical Specification							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-1/10000	00 s			HLC	Yes	
Min. Illumination	1	0.008 Lux @	F1.6				WDR	120 dB	
S/N Ratio		>56 dB					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Illumination Distance		30 m (98.43 ft)					Gain Control	Auto/Manual	
Illuminator On/O	Off Control	Auto/Manual					Noise Reduction	3D NR	
Illuminator Number		3 (IR LED)					Motion Detection	OFF/ON (4 areas, rectangular)	
Pan/Tilt/Rotation Range		Pan: 0°-355° Tilt: 0°-65°					Region of Interest(RoI)	Yes (4 areas)	
		Rotation: 0°–355°					Smart Illumination	Yes	
Lens Type		Fixed-focal					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 ×1520 resolution and lower.)	
Mount Type		M12					Mirror	Yes	
Focal Length		2.8 mm					Privacy Masking	4 areas	
		3.6 mm F1.6					Alarm		
Max. Aperture Field of View		2.8 mm: Horizontal 102.0° × Vertical 55.0° × Diagonal 121.0° 3.6 mm: Horizontal 84.0° × Vertical 45.0° × Diagonal 100.0°					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; safety exception	
Iris Type		Fixed	.o x vertical i	3.0 N Diagona	1100.0		Network		
Close Focus Dista		2.8 mm: 0.9 m (2.95 ft)					Network	RJ-45 (10/100 Base-T)	
Close Focus Dista	Lens	3.6 mm: 1.6 m (5.25 ft)			SDK and API	Yes			
DORI Distance	2.8mm 3.6mm	Detect 56 m (183.73 ft) 80 m (262.47 ft)	22.4 m (73.49 ft) 32 m (104.99 ft)	11.2 m (36.75 ft) 16 m (52.49 ft)	5.6 m (19.37 ft) 8 m (26.25 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	
Smart Event		(20231)					IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;		
IVS		Tripwire; intrusion					Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour	
Video								ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone;	
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					Interoperability	Genetec	
Smart Codec		Smart H.265+/ Smart H.264+					User/Host	20	
Video Frame Rate		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream:					Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP IE Chrome Firefox	
		704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Management Software	Smart PSS; DSS; DMSS	
Stream Capability		2 streams					Mobile Phone	IOS; Android	

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Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
	FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 5.2W

Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection	IP67; IK10		

Structure

Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.19" × Φ4.33")
Net Weight	0.350 kg (0.77 lb)
Gross Weight	0.491 kg (1.08 lb)

Ordering Information Part Number Description Type 4MP Lite IR Fixed-focal Dome DH-IPC-HDBW2431EP-S-S2 Network Camera, PAL 4MP Camera 4MP Lite IR Fixed-focal Dome DH-IPC-HDBW2431EN-S-S2 Network Camera,NTSC PFA136 Junction Box PFA200W Rain Shade PFB203W Wall Mount PFA152-E Pole Mount PFA106 Mount Adapter (optional) PFB220C Celling Mount PFM321D DC12V1A Power Adapter Single-port Long Reach Ethernet LR1002-1ET/1EC Over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:







PFA136 Junction Box

PFA200W Rain Shade

PFB203W Wall Mount









PFA152-E Pole Mount

PFA106 Mount Adapter









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
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])



