

DH-IPC-HDBW2431F-AS-S2

4MP Lite IR Fixed-focal Dome Network Camera



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

Dahua Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @20 fps,and supports 2560 × 1440 (2560 × 1440) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max. IR distance: 30 m
- Rol, 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, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; built-in Mic; supports max. 256 GB Micro SD card
- 12V DC/PoE power supply
- IP67, IK10 protection



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 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.

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Technical Specification

Camera					
Image Sensor		1/3"4Megapixel progressive CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Minimum Illumination		0.008 Lux @ F1.6			
S/N Ratio		> 56 dB			
Illumination Distance		30 m (98.4 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		8 (IR LED)			
Pan/Tilt/Rotation Range		Pan: -30°-30° Tilt: 0°-80° Rotation: 0°-360°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm 3.6 mm			
Max. Aperture		F1.6 F1.6			
Field of View		2.8 mm:Horizontal 102° × Vertical 55° × Diagonal 121° 3.6 mm:Horizontal 84° × Vertical 45° × Diagonal 100			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.2 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	5.6 m (8.5 ft)
	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)
Smart Event					
IVS		Tripwire; intrusion			
Video					

Video		
Video Compression	H.265; H.264; H.264B; MJPEG (only supported by sub stream)	
Smart Codec	Smart H.265+/ Smart H.264+	
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)	
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	Auto/Manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (Rol)	Yes (4 areas)		
Smart Illumination	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower.)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	Yes		
Audio Compression	G.711a; G.711Mu; G.726		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception; local alarm		
Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
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		
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		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec		
User/Host	20		
Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS		
Browser	IE Chrome Firefox		
Management Software	Smart PSS, DSS, DMSS		
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			
Port				
Audio Input	1 channel (RCA port)			
Audio Output	1 channel (RCA port)			
Alarm Input	1 channel in: 5mA 3V–5V DC			
Alarm Output	1 channel out: 300mA 12V DC			
Power				
Power Supply	12V DC/PoE			
Power Consumption	<5.4W			
Environment				
Operating Temperature	-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	55 mm × Φ108.9 mm (2.2" × Φ4.3")			
Net Weight	0.38 kg (0.8 lb)			
Gross Weight	0.52 kg (1.1 lb)			

Ordering Information

Туре	Part Number	Description	
4MP Camera	DH-IPC-HDBW2431FP-AS-S2	4MP Lite IR Fixed-focal Dome Network Camera,PAL	
	DH-IPC-HDBW2431FN-AS-S2	4MP Lite IR Fixed-focal Dome Network Camera,NTSC	
Accessories (optional)	PFA139	Junction Box	
	PFB204W	Wall Mount	
	PFA152-E	Pole Mount	
	PFB220C	Mount Adapter	
	PFA106	Celling 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	

Accessories

Optional:



PFA139

Junction Box

PFB220C

Ceiling Mount



PFB204W

Wall Mount

PFA106

Mount Adapter



PFA152-E Pole Mount



PFM321D 12V DC 1A Power Adapter



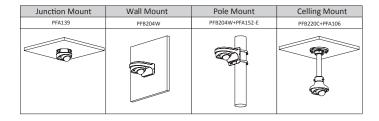




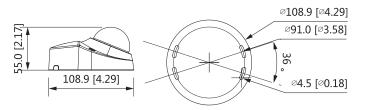
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender

PFM900-E Integrated Mount Tester

PFM114 TLC SD Card



Dimensions (mm[inch])



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