

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.

- 4-MP, 1/3" CMOS image sensor, low illuminance, high image definition.
- Outputs max. 4MP (2688 \times 1520) @20 fps,and supports 2560 \times 1440 (2560 \times 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 work normally 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Resolution	Technical Sp	ecificatio	on						2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440);	
Max. Report 1/4 ° MAX 1/2								Resolution		
ROM	Image Sensor		1/3" CMOS					Bit Rate Control		
ROM	Max. Resolution		2688 (H) × 1520 (V)					Video Bit Rate		
RAM	ROM		128 MB					Day/Night	·	
Professional	RAM		128 MB							
Minimum Mumination Minimum	Scanning System		Progressive						Yes	
Minimum illumination	Electronic Shutte	er Speed	Auto/Manual	1/3 s-1/100,00	00 s					
Notice Reduction 30 NR Motion Distance 30 m (98.4 fl)(R) Motion Detection 00F/ON (4 areas, rectangular) 00F/ON (4 areas, rect	Minimum Illumination		0.0008 lux@F1.6 (B/W, 30 IRE)						Auto; natural; street lamp; outdoor; manual; regional	
Motion Detection Off-/ON diames, rectangular	S/N Ratio			,				Gain Control	Auto; Manual	
	Illumination Dist	ance	30 m (98.4 ft)	(IR)				Noise Reduction	3D NR	
Pan/Titl/Rotation Range Pan/Titl/Rotation Range Rotation 0"-360" Smart Illumination Yes	Illuminator On/C	Off Control						Motion Detection	OFF/ON (4 areas, rectangular)	
Pan/Titt/Rotation Range Rotation Pan/Fitt/Rotation Range Rotation Pan/Fitt/Rotation Pan/Fitt	Illuminator Num	ber						Region of Interest (RoI)	Yes (4 areas)	
Lens Lens Fixed-focal Mirror Yes Mirror Mirror Yes			Pan: -30°-30	•				Smart Illumination	Yes	
Millor M			Tilt: 0°-80°					Image Rotation		
Mount Type			Fixed focal					Mirror	Yes	
Focal Length								Privacy Masking	4 areas	
Max. Aperture			2.8 mm: 3.6 r	nm				Audio		
Pried of View 2.8 mm; H; 108*; V; 56*; D; 128* 3.6 mm; H; 88*; V; 46*; D; 104*	_							Built-in MIC	Yes	
Alarm Al				D8°; V: 56°; D: 1	128°			Audio Compression	G.711a; G.711Mu; G.726	
Close Focus Distance 2.8 mm; 1.1 m (3.6 ft) 3.6 mm; 1.6 m (5.2 ft) DORI Distance 2.8 mm 63.6 m 2.8 mm 79.4 m 3.6 mm 79.4 m 2.8 mm 79.4 m 79.4 m 79.4 m 79.4 m 79			3.6 mm: H: 88°; V: 46°; D: 104°					Alarm		
DORI Distance 2.8mm 63.6 m (208.66 ft) 3.6mm 79.4 m (260.50 ft) (104.33 ft) (52.17 ft) (52.17 ft) (25.92 ft) SDK and API Yes Video encryption; firmware encryption; configuration encryption; promate encryption; prom			2.8 mm: 1.1 m (3.6 ft)					Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio	
DORI Distance 2.8mm (208.66 ft) (83.33 ft) (41.67 ft) (21.00 ft)		Lens	Detect	Observe	Recognize	Identify			alarm	
3.6mm 79.4 m (260.50 ft) 31.8 m (52.17 ft) 7.9 m (25.92 ft) Smart Event IVS Tripwire; intrusion Video Compression Video Compression H.265; H.264; H.2648; MJPEG (only supported by sub stream) Smart Codec Smart H.265+; Smart H.264+ Video Frame Rate Video Frame Rate 704 × 576@(1 fps-20 fps) 2550 × 1440@(1 fps-25/30 fps) 5104 × 1576@(1 fps-25 fps) 704 × 480@(1 fps-30 fps) 1704 × 1806@(1 fps	DORI Distance	2.8mm						Network		
Smart Event IVS Tripwire; intrusion Video Video Video Compression Fig. 1265; H.264; H.264B; MJPEG (only supported by sub stream) Smart Codec Fig. 2688 × 1520@(1 fps-20 fps) 2560 × 1440@(1 fps-25/30 fps) Sub stream: Video Frame Rate Video Frame Rate Video Frame Rate Video Execurity Video 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 Protocol Protocol RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour 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		3.6mm						Network	RJ-45 (10/100 Base-T)	
Video Compression Video Compression Video Compression Video Example Cyber Security Video encryption; firmware encryption; configuration encryption; carrification; configuration encryption; carrification; configuration encryption; carrification; carrificatio	Smart Event		(260.50 π) (104.33 π) (52.17 π) (25.92 π)			(25.92 π)		SDK and API	Yes	
Video Compression Wideo Compression H.265; H.264; H.264B; MJPEG (only supported by sub stream) Frotocol Main stream: 2688 x 1520@(1 fps-20 fps) 2560 x 1440@(1 fps-25/30 fps) Sub stream: Video Frame Rate Video Frame Rate Video Frame Rate Cyber Security Cyber Security IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade Protocol RTMP; FV; FVP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour 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										
Video Compression H.265; H.264; H.264B; MJPEG (only supported by sub stream) Smart Codec Smart H.265+; Smart H.264+ Protocol Main stream: 2688 × 1520@(1 fps-20 fps) 2560 × 1440@(1 fps-25/30 fps) Sub stream: Video Frame Rate Video Frame Rate Video Frame Rate Protocol Protocol 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			inpwire; intrusion					Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted	
Smart Codec Smart H.265+; Smart H.264+ 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) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. Protocol RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour 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	Video Compression							Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP;	
2688 × 1520@(1 fps-20 fps) 2560 × 1440@(1 fps-25/30 fps) Sub stream: 704 × 576@(1 fps-30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. Interoperability User/Host 20 Storage FTP; SFTP; Micro SD Card (support max. 256 GB); NAS Browser IE; Chrome; Firefox	Smart Codec									
Sub stream: 704 × 576@(1 fps-25 fps) 704 × 480@(1 fps-30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. Storage FTP; SFTP; Micro SD Card (support max. 256 GB); NAS Browser IE; Chrome; Firefox	Video Frame Rate		$2688 \times 1520@(1 \text{ fps-20 fps})$ $2560 \times 1440@(1 \text{ fps-25/30 fps})$ Sub stream: $704 \times 576@(1 \text{ fps-25 fps})$ $704 \times 480@(1 \text{ fps-30 fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected					Interoperability		
*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. Storage FTP; SFTP; Micro SD Card (support max. 256 GB); NAS Browser IE; Chrome; Firefox								User/Host		
to the total encoding capacity. Browser IE; Chrome; Firefox								Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
Stream Capability 2 streams Management Software Smart PSS, DSS, DMSS								Browser	IE; Chrome; Firefox	
	Stream Capability		2 streams					Management Software	Smart PSS, DSS, DMSS	

Lite Series | DH-IPC-HDBW2431F-AS-S2

Ente Series Dir	11 C 1100W 2+311 7/3 32		
Mobile Phone	IOS; Android		
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		

Ordering Information						
Туре	Part Number	Description				
4MP	DH-IPC-HDBW2431FP-AS-S2	4MP Lite IR Fixed-focal Dome Network Camera,PAL				
Camera	DH-IPC-HDBW2431FN-AS-S2	4MP Lite IR Fixed-focal Dome Network Camera,NTSC				
	PFA139	Junction Box				
	PFB204W	Wall Mount Bracket				
	PFA152-E	Pole Mount Bracket				
	PFB220C	Ceiling Mount Bracket				
Accessories	PFA106	Mount Adapter				
(optional)	PFM321D	12V DC 1A Power Adapter				
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	TF-P100	MicroSD Memory Card				

55 mm × Φ108.9 mm (2.2" × Φ4.3")

0.38 kg (0.84 lb)

0.52 kg (1.15 lb)

Accessories

Optional:







PFA152-E

Pole Mount

PFA139 Junction Box

PFB204W Wall Mount Bracket

Bracket

PFB220C Ceiling Mount Bracket



PFM321D 12V DC 1A Power Adapter









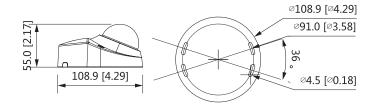
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender

PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card

Junction Mount	Wall Mount	Pole Mount	Celling Mount
PFA139	PFB204W	PFB204W+PFA152-E	PFB220C+PFA106

Dimensions (mm[inch])



Dimensions

Net Weight

Gross Weight