

DH-IPC-HDBW2231F-AS-S2

2MP Lite IR Fixed-focal Dome Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @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 suppply
- 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 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.

Technical Specification			Bit Rate Control	CBR/VBR			
Camera					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps	
Image Sensor		1/2.8"2Megapixel progressive CMOS			Day/Night	Auto (ICR)/Color/B/W	
Max. Resolution		1920 (H) × 1080 (V)			BLC	Yes	
ROM		128 MB				HLC	Yes
RAM		128 MB				WDR	120 dB
Scanning System	1	Progressive				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Electronic Shutte	er Speed	Auto/Manual 1/3 s-1/100,000 s			Gain Control	Auto/Manual	
Minimum Illumi	nation	0.002 Lux @ F1.6			Noise Reduction	3D NR	
S/N Ratio		> 56 dB			Motion Detection	OFF/ON (4 areas, rectangular)	
Illumination Dist	tance	30 m (98.4 ft)			Region of Interest (RoI)	Yes (4 areas)	
Illuminator On/0	Off Control	Auto/Manual			Smart Illumination	Yes	
Illuminator Num	ber	8 (IR LED)					0°/90°/180°/270° (Support 90°/270° with 1080p
Pan/Tilt/Rotatio	n Range	Pan: -30° -30° Tilt: 0° -80°			Image Rotation	resolution and lower)	
Tany meratio	iii nange	Rotation: 0°–360°			Mirror	Yes	
Lens		E 16 1			Privacy Masking	4 areas	
Lens Type Mount Type		Fixed-focal			Audio		
		M12 2.8 mm			Built-in MIC	Yes	
Focal Length		3.6 mm			Audio Compression	G.711a; G.711Mu; G.726	
Max. Aperture		F1.6 F1.6		Alarm			
Field of View		2.8 mm:Horizontal 106° × Vertical 56° × Diagonal 126° 3.6 mm:Horizontal 87° × Vertical 46° × Diagonal 104°				No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion	
Iris Type		Fixed			Alarm Event	detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception; local alarm	
Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft)			Network		
	Lens	Detect	Observe	Recognize	Identify	Network	RJ-45 (10/100 Base-T)
0001011	2.8mm	56.0 m	22.4 m	11.2 m	5.6 m	SDK and API	Yes
DORI Distance	2.011111	(183.7 ft)	(73.5 ft)	(36.7 ft)	(8.5 ft)	3DK dilu Al 1	
	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)	College Consorting	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security log
Smart Event						Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trus execution; trusted upgrade
IVS		Tripwire; intro	usion				execution, trusted appliade
Video						Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnF
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by sub stream)					NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Smart Codec		Smart H.265+/ Smart H.264+				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Mileston Genetec
		Main stream: 1920 × 1080 (1fps–25/30 fps)			User/Host	20	
Video Frame Rate		Sub stream: 704 × 576 (1fps-25/30 fps)			Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
Stream Capabilit	ty	704 × 480 (1fps–25/30 fps) 2 streams			Browser	IE Chrome Firefox	
		1080p (1920	× 1080); 1.3M	(1280 × 960): 7	720p (1280	Management Software	Smart PSS, DSS, DMSS
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			Mobile Phone	IOS; Android	
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Certification

Certifications 20	E-LVD: EN62368-1 E-EMC: Electromagnetic Compatibility Directive 014/30/EU CC: 47 CFR FCC Part 15, Subpart B L/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
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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		
2MP Camera	DH-IPC-HDBW2231FP-AS-S2	2MP Lite IR Fixed-focal Dome Network Camera,PAL		
	DH-IPC-HDBW2231FN-AS-S2	2MP Lite IR Fixed-focal Dome Network Camera,NTSC		
	PFA139	Junction Box		
	PFB204W	Wall Mount		
	PFA152-E	Pole Mount		
	PFB220C	Mount Adapter		
Accessories	PFA106	Celling Mount		
(optional)	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:



PFB204W



PFA152-E

Pole Mount

Wall Mount



PFB220C Ceiling Mount

PFA106 Mount Adapter

PFM321D 12V DC 1A Power Adapter







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

PFM900-E Integrated Mount

PFM114 TLC SD Card

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

Dimensions (mm[inch])

