

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 DNR, 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 to the standards of IP67 and IK10.

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.

IVS

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

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

Wide voltage: The camera allows ±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			l	Video Bit Rate	H.264: 32 kbps-6144 kbps				
Image Sensor		1/2.8"2Megapixel progressive CMOS					Day/Night	H.265: 12 kbps-6144 kbps 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		Progressive						Auto/natural/street lamp/outdoor/manual/regional	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					White Balance	custom	
S/N Ratio		> 56 dB					Gain Control	Auto/Manual	
Minimum Illumination		0.002 Lux @ F1.6					Noise Reduction	3D DNR	
Illumination Distance		30 m (98.4 ft)					Motion Detection	OFF/ON (4 areas, rectangular)	
Illuminator On/0	Off Control	Auto/Manual					Region of Interest (RoI)	Yes (4 areas)	
Illuminator Number		8 (IR LED)					Smart Illumination	Yes	
		Pan: -30° -30°					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)	
Pan/Tilt/Rotation Range		Tilt: 0° –80° Rotation: 0°–360°					Mirror	Yes	
Lens						Privacy Masking	4 areas		
Lens Type		Fixed-focal					Audio	audio	
Mount Type		M12					Built-in MIC	Yes	
Focal Length		2.8 mm 3.6 mm					Audio Compression	G.711a; G.711Mu; G.726; AAC	
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°					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; voltage detection; security exception; local detection; voltage detection; security exception; local	
Iris Type		Fixed						detection; voltage detection; security exception; local alarm	
Close Focus Dist	ance	2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft)					Network		
	Long						Network	RJ-45 (10/100 Base-T)	
	Lens	56.0 m	22.4 m	11.2 m	Identify 5.6 m		SDK and API	Yes	
DORI Distance	2.8mm 3.6mm	(183.7 ft) 80.0 m (262.5 ft)	(73.5 ft) 32.0 m (105.0 ft)	(36.7 ft) 16.0 m (52.5 ft)	(8.5 ft) 8.0 m (26.2 ft)		Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour	
Smart Event							Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	
IVS		Tripwire; intrusion					User/Host	20	
Video							,	Dahua Cloud; FTP; SFTP; Micro SD card (support max.	
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by sub stream)					Edge Storage	256 G); NAS IE	
Smart Codec		Smart H.265+/ Smart H.264+					Browser	Chrome Firefox	
		Main stream:					Management Software	Smart PSS, DSS, DMSS	
Video Frame Rate		1920 × 1080 (1fps-25/30 fps) Sub stream:					Mobile Phone	IOS; Android	
		704 × 576 (1fps–25/30 fps) 704 × 480 (1fps–25/30 fps)					Certification		
Stream Capability		2 streams						CE-LVD: EN60950-1	
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				Certifications	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)		
Ingress 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	DH-IPC-HDBW2231FP-AS-S2	2MP Lite IR Fixed-focal Dome Network Camera,PAL		
Camera	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 Wall Mount

PFA152-E Pole Mount







PFB220C Ceiling Mount

PFA139

Junction Box

PFA106 Mount Adapter

PFM321D 12V DC 1A Power Adapter







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PFM114 TLC SD Card

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

Dimensions (mm[inch])



