

DH-IPC-HDBW2231R-ZAS-S2

2MP Lite IR Fixed-focal Dome Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs 2MP (1920 × 1080)@25/30 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 40 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
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- 12V DC/PoE power supply
- IP67, IK10 protection grade















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. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, Dahua network camera better meets the demands of cyber security and privacy protection.

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.



Technical Specification				Bit Rate Control	CBR/VBR			
Camera				Video Bit Rate	H.264: 32 kbps-6144 kbps			
Image Sensor		1/2.8" 2Megapixel progressive CMOS						H.265: 12 kbps-6144 kbps
Max. Resolution		1920 (H) × 1080 (V)					Day/Night	Auto(ICR)/Color/B/W
ROM		128 MB					BLC	Yes
RAM		128 MB					HLC	Yes
Scanning System	1	Progressive					WDR	120 dB
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Min. Illumination	n	0.002Lux @ F	F1.5				Gain Control	Auto/Manual
S/N Ratio		>56 dB					Noise Reduction	3D NR
Illumination Dist	ance	40 m (131.23 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/C	Off Control	Auto/Manua	I				Region of Interest(RoI)	Yes (4 areas)
Illuminator Num	ber	2 (IR LED)					Smart Illumination	Yes
Pan/Tilt/Rotatio	Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.)
Lens	Lens						Mirror	Yes
Lens Type		Motorized vari-focal					Privacy Masking	4 areas
Mount Type			ф14				Audio	
Focal Length		2.7mm-13.5mm					Audio Compression	G.711a; G.711Mu; G.726
Max. Aperture		F1.5				Alarm		
Field of View			Horizontal: 109°–28° Vertical: 57°–16° Diagonal: 131°–33°				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; audio detection; safety exception; local alarm
Iris Type		Fixed					Network	
Close Focus Dist	ance	0.8 m-0.8 m (2.62 ft-2.62 ft)					Network	DI 4F /10/100 Page T\
	Lens	Detect	Observe	Recognize	Identify		SDK and API	RJ-45 (10/100 Base-T)
DORI Distance	W	44.1 m (144.69 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)		SDK and API	Yes
	Т	151.7 m (497.70 ft)	60.6 m (198.82 ft)	30.3 m (99.41 ft)	15.1 m (49.65 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
Smart Event							execution; trusted upgrade	
IVS	IVS		Tripwire; intrusion					IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
Video							Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)						
Smart Codec		Smart H.265+/ Smart H.264+					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps)					User/Host	20
		Sub stream: 704 × 576 (1 fps-25 fps)				Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP	
Stream Canability		704 × 480 (1 fps-30 fps)				Browser	IE Chrome	
oti cam capabilit	Stream Capability		2 streams				Managament Coft	Firefox Smart DSS, 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)				Management Software Mobile Phone	Smart PSS; DSS; DMSS IOS; Android	

Certification

CE-I Certifications 201 FCC	.VD: EN62368-1 EMC: Electromagnetic Compatibility Directive 4/30/EU : 47 CFR FCC Part 15, Subpart B 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–5VDC
Alarm Output	1 channel Out: 300mA 12VDC

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 6.4W
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Environment

Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than \leq 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection	IP67; IK10		

Structure

Casing	Metal
Dimensions	Φ122 mm × 88.9 mm (Φ4.80" × 3.50")
Net Weight	0.47 kg (1.04 lb)
Gross Weight	0.63 kg (1.39 lb)

Ordering Information Туре Part Number Description 2MP Lite IR Fixed-focal Dome DH-IPC-HDBW2231RP-ZAS-S2 Network Camera,PAL 2MP Camera 2MP Lite IR Fixed-focal Dome DH-IPC-HDBW2231RN-ZAS-S2 Network Camera.NTSC PFA137 PFB203W Wall Mount PFA152-E Pole Mount PFA200W Rain Shade PFA106 Mount Adapter PFB220C Celling Mount Accessories (optional) PFB200C In-Celling Mount PFM321D DC12V1A Power Adapter Single-port Long Reach Ethernet LR1002-1ET/1EC over Coax Extender PFM900-E Integrated Mount Tester TLC SD Card PFM114

Accessories

Optional:







Junction Box

PFA137

PFB203W Wall Mount

PFA152-E Pole Mount





PFA200W Rain Shade

PFA106 Mount Adapter

PFB220C Celling Mount







PFB200C In-Celling Mount

PFM321D DC12V1A Power Adapter

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



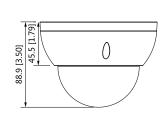
PFM900-E Integrated Mount Tester

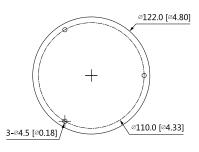


PFM114 TLC SD Card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA137P	PFA137+PFA200W	FB203W	PFB203W+PFA152-E
Ceiling Mount	In-Ceiling Mount		
PFA106+PFB220C	PFB200C		

Dimensions (mm[inch])





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