

DH-IPC-HDBW2231R-ZAS-S2

2MP Lite IR Vari-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















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 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			Video Sicilate	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		Progressive			WDR	120 dB	
Electronic Shutte	er Speed	Auto/Manual 1/3 s–1/100000 s			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Min. Illumination	า	Color: 0.002 Lux @ F1.5 Black&White: 0.001Lux@F1.5, 0Lux@F1.5 (IR on)				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/Manual				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					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 Dista	ance	0.8 m-0.8 m	(2.62 ft-2.62 ft	t)		Network	RJ-45 (10/100 Base-T)
	Lens	Detect	Observe	Recognize	Identify	SDK and API	Yes
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 dilu AFI	
	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; IEEE802.1x; trusted boot;
Smart Event						trusted execution; trusted upgrade	
IVS		Tripwire; intrusion					IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP ; RTSP;
Video Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the				Protocol	RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; IEEE802.1x; SNMP; Bonjour
Smart Codec		sub stream) 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) Sub stream: 704 × 576 (1 fps-25 fps)				User/Host	20
						Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
Stream Capability		704 × 480 (1 fps-30 fps) 2 streams				Browser	IE Chrome Firefox
		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280			Management Software	Smart PSS; DSS; DMSS	
Resolution		×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			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–5VDC
Alarm Output	1 channel Out: 300mA 12VDC

Power

Power Supply	12V DC/PoE (IEEE802.3af)
Power Consumption	< 6.4W
Francisco estado	

Environment

Operating Conditions	-30°C to +60°C (-22°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	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 Vari-focal Dome DH-IPC-HDBW2231RP-ZAS-S2 Network Camera,PAL 2MP Camera 2MP Lite IR Vari-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:







PFA137 Junction Box

PFB203W Wall Mount

PFA152-E Pole Mount





PFA200W Rain Shade

Mount Adapter









PFB200C In-Celling Mount

PFM321D DC12V1A Power Adapter

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



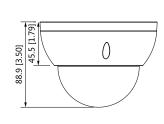
PFM900-E Integrated Mount Tester

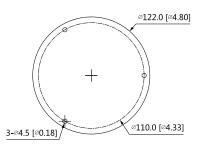


PFM114 TLC SD Card

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

Dimensions (mm[inch])





Rev 001.001