

DH-IPC-HDBW2201R-ZS

2MP WDR IR 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 DNR, 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 support
- IP67, IK10 protection grade















System Overview

With updraded H.265 encoding technology, Dahua Lite series camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function and tamper-proof function, complying to the standards of IP67 and IK10.

Functions

Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back- light environment, bright region and dark region with strong light source, you can also get clear images.

Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

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.

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Technical Specification						Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps		
Camera							Day/Night	Auto(ICR)/Color/B/W	
Image Sensor		1/2.8" 2Megapixel progressive CMOS					BLC	Yes	
Effective Pixels		1920 (H) × 1080 (V)					HLC	Yes	
ROM		128 MB					WDR	120 dB	
RAM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional	
Scanning System		Progressive						custom	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Gain Control	Auto/Manual	
Min. Illumination		0.002Lux @ F1.5					Noise Reduction	3D DNR	
IR Distance		40 m (131.23 ft)					Motion Detection	OFF/ON (4 areas, rectangular)	
IR On/Off Control		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)	
IR LEDs Number		2					Smart IR	Yes	
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		555				Mirror	Yes	
Lens Type		Motorized vari-focal					Privacy Masking	4 areas	
Mount Type		ф14					Audio		
							Audio Compression	G.711a; G.711Mu; G.726; AAC	
Focal Length		2.7mm-13.5mm					Network		
Max. Aperture		F1.5	F1.5				Network	RJ-45 (10/100 Base-T)	
Field of View		Pan: 109°–28° Tilt: 57°–16° Diagonal: 131°–33°					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	
Iris Type		Fixed aperture						ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone;	
Close Focus Distance		0.8 m-0.8 m (2.62 ft-2.62 ft)					Interoperability Genetec		
	Lens	Detect 44.1 m	Observe	Recognize	Identify		User/Host	20	
DORI Distance	W	(144.69 ft) 151.7 m	17.6 m (57.74 ft) 60.6 m	8.8 m (28.87 ft) 30.3 m	4.4 m (14.44 ft) 15.1 m		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
Smart Event	Т	(497.70 ft)	(198.82 ft)	(99.41 ft)	(49.65 ft)		Browser	IE Chrome Firefox	
General IVS Ana	lytics	Tripwire; intrusion					Management Software	Smart PSS; DSS; DMSS	
Video		, ,					Mobile Phone	IOS; Android	
Video Compress	ion	H.265; H.264; H.264B; MJPEG					Certification		
Smart Codec	Smart Codec							CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive	
Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps)					Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
		704 × 480 (1 fps-30 fps)					Port		
Stream Capability		2 streams					Audio Input	1 channel (RCA port)	
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280					Audio Output	1 channel (RCA port)	
		×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Alarm Input	1 channel In: 5mA 3V–5VDC	
Bit Rate Control		CBR/VBR					Alarm Output	1 channel Out: 300mA 12VDC	

Lite Series | DH-IPC-HDBW2201R-ZS

Power

Power Supply	12V DC/PoE (802.3af)		
Power Consumption	< 6.4W		
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 Grade	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 Camera	DH-IPC-HDBW2201RP-ZS	2MP WDR IR Dome Network Camera,PAL			
	DH-IPC-HDBW2201RN-ZS	2MP WDR IR Dome Network Camera,NTSC			
	PFA137	Junction Box			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
	PFA200W	Rain Shade			
	PFA106	Mount Adapter			
Accessories	PFB220C	Celling Mount			
(optional)	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			

Accessories

Optional:







PFA200W Rain Shade



PFB203W Wall Mount



PFA106 Mount Adapter



PFA152-E Pole Mount



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	
PFA137	PFA137+PFA200W	PFB203W	PFB203W+PFA152-E	
Ceiling Mount	In-Ceiling Mount			
PFA106+PFB220C	PFB200C			

Dimensions (mm[inch])





