

# DH-IPC-HDBW3841R-ZAS

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 +30% input voltage tolerance (wide

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 Sp	ecificati	on					Bit Rate Control	CBR/VBR
Camera				Video Bit Rate	H.264: 32 kbps-6144 kbps			
Image Sensor		1/2.8" 2Megapixel progressive CMOS				video bit rate	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 Shutter Speed		Auto/Manual 1/3 s–1/100000 s				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Min. Illumination		Color : 0.002 Black&White		5 , OLux@F1.5	5 (IR on)		Gain Control	Auto/Manual
S/N Ratio		Black&White: 0.001Lux@F1.5, 0Lux@F1.5 (IR on) >56 dB				Noise Reduction	3D NR	
Illumination Distance		40 m (131.23	ft)				Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/0	Off Control	Auto/Manual				Region of Interest(RoI)	Yes (4 areas)	
Illuminator Number		2 (IR LED)					Smart Illumination	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		Rotation. 0 355				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
-		F1.5				Alarm		
Max. Aperture 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	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)		SDR dilu AFT	
Smart Event	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; trusted execution; trusted upgrade
IVS								
Video							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; IEEE802.1x; SNMP; Bonjour  ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Mileston Genetec	RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS;
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)						IEEE802.1x; SNMP; Bonjour
Smart Codec		Smart H.265+/ Smart H.264+						
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 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
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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

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)	

IP67; IK10

12V DC/PoE (IEEE802.3af)

# Protection 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-HDBW3841RP-ZAS	2MP Lite IR Vari-focal Dome Network Camera,PAL		
	DH-IPC-HDBW3841RN-ZAS	2MP Lite IR Vari-focal 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		

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# Accessories

# **Optional:**







PFA137 Junction Box

PFB203W Wall Mount

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

## Dimensions (mm[inch])



