

DH-IPC-HDBW3441R-ZAS

4MP Lite AI IR Vari-focal Dome Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition Outputs max. 4MP (2688×1520)@30 fps
- · H.265 codec, high compression rate, 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, scene changing, audio abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card
- 12V DC/POE power support
- IP67, IK10 protection
- · SMD













System Overview

With advanced deep learning algorithm, Dahua Lite AI series network camera supports some intelligent functions, such as perimeter protection and smart motion detection. It adopts starlight solution, which makes a better image effect in low illuminance.

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.

Smart Motion Detection (SMD)

With intelligent algorithm, Dahua Smart Motion Detection technology can effectively recognize the target types, flitting the motion detection alarm triggered by non-concerned target types. It can realize effective and accurate alarm.

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							Day/Night	Auto(ICR)/Color/B/W		
Camera							BLC	Yes		
Image Sensor		1/3"4Megapixel progressive CMOS					HLC	Yes		
Effective Pixels		2688 (H) ×1520 (V)					WDR	120 dB		
ROM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
RAM		512 MB					Gain Control	Auto/Manual		
Scanning System		Progressive					Noise Reduction	3D DNR		
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Motion Detection	OFF/ON (4 areas, rectangular)		
Min. Illumination		0.005 Lux@F1.5					Region of Interest(RoI)	Yes (4 areas)		
IR Distance		40 m (131.23 ft)					Smart IR	Yes		
IR On/Off Control		Auto/Manual					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080		
IR LEDs Number	IR LEDs Number		2 (IR LEDs)				resolution.)			
Pan/Tilt/Rotation Range		Horizontal: 0°–355°; vertical: 0°–75°; rotation: 0°–355°					Mirror	Yes		
Lens							Privacy Masking	4 areas		
Lens Type		Motorized vari-focal					Audio	udio		
Mount Type		ф14					Audio Compression	G.711a; G.711Mu; G726; AAC		
Focal Length		2.7 mm-13.5 mm					Network			
Max. Aperture		F1.5					Network	RJ-45 (10/100 Base-T)		
Field of View		Horizontal: 104°–27° Vertical: 55° –15° Diagonal: 124° –31°					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;SNMP		
Iris Type	Iris Type		Fixed aperture				Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec		
Close Focus Dist	Close Focus Distance		0.8 m (2.6 ft)				Scene Self-adaptation	Yes		
	Lens	Detect	Observe	Recognize	Identify		User/Host	20 (Total bandwidth: 64 M)		
DORI Distance	W	64.0 m (210.0 ft)	25.6 m (84.0 ft)	12.8 m (42.0 ft)	6.4 m (21.0 ft)		Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS		
Drofessional	T	222.0 m (728.3 ft)	88.8 m (291.3 ft)	44.4 m (145.7 ft)	22.2 m (72.8 ft)		Browser	IE: IE8, IE9, IE11 Chrome Firefox		
Professional, Intellige		Tripwire; intrusion (Recognition of human and vehicle)					Management Software	Smart PSS, DSS, DMSS		
Termicer Frotes	Ction	Work together with Smart NVR to perform refine					Mobile Phone	IOS; Android		
Intelligent Searc	h	intelligent search, event extraction and merging to event videos					Certification			
Video		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						CE-LVD: EN60950-1		
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU		
Smart Codec	·		Yes					FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07		
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps)					Port			
Stroom Canability		third stream (1280 × 720@1–25/30 fps)					Audio Input	1-channel (RCA port)		
Stream Capability		3 streams 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 ×					Audio Output	1-channel (RCA port)		
Resolution		1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352					Alarm Input	1 channel in: 5mA 3V–5V DC		
Bit Rate Control		× 240) CBR/VBR					Alarm Output	1 channel out: 300mA 12V DC		
		H.264: 3 Kbps-8192 Kbps					Power			
Video Bit Rate		H.265: 3 Kbps-8192 Kbps					Power Supply	12V DC/PoE (802.3af)		

Lite Al Series | DH-IPC-HDBW3441R-ZAS

Power Consumption	<8.5W		
Environment			
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than≤95%		
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)		
Ingress Protection	IP67; IK10		
Structure			
Casing	Metal		
Dimensions	Ф122 mm × 88.9 mm (Ф4.8" × 3.5")		
Net Weight	492 g (1.1 lb)		
Gross Weight	663 g (1.5 lb)		

Ordering Information						
Туре	Part Number	Description				
4MP Camera	DH-IPC-HDBW3441RP-ZAS	4MP Lite AI IR Vari-focal Dome Network Camera,PAL				
	DH-IPC-HDBW3441RN-ZAS	4MP Lite AI 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				

Accessories

Optional:







PFA137 Junction Box

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

Dimensions (mm[inch])





