

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)				A diamen	resolution.)
Pan/Tilt/Rotation	Pan/Tilt/Rotation Range		Horizontal: 0°–355°; vertical: 0°–75°; rotation: 0°–355°				Mirror	Yes
Lens							Privacy Masking	4 areas
Lens Type		Motorized va	ri-focal				Audio	
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 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
Drofossional	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, Intelligent Perimeter Protection Tripwire; intrusion (Recognition of human and vehicle)				Management Software	Smart PSS, DSS, DMSS			
refilleter Frotes	Perimeter Protection						Mobile Phone	IOS; Android
Intelligent Search	h	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Certification	
Video		videos					CE-LVD: EN60950-1	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG					Certifications	CE-EWC: 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 For		Main stream (2688 × 1520@1–25/30 fps)					Port	
Video Frame Rate		sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)					Audio Input	1-channel (RCA port)
Stream Capability		3 streams					Audio Output	1-channel (RCA port)
Resolution		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 420); VCA (640 × 420); CIF (352 × 238/352)					Alarm Input	1 channel in: 5mA 3V–5V DC
		× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Alarm Output	1 channel out: 300mA 12V DC
Bit Rate Control		CBR/VBR					Power	
Video Bit Rate		H.264: 3 Kbps–8192 Kbps 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	Φ122 mm × 88.9 mm (Φ4.8" × 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])





