

DH-IPC-HDBW3441R-ZS

4MP Lite AI IR Vari-focal Dome Network Camera



- 4MP, 1/2.7" 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, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · 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.



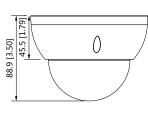
Technical Specification							Day/Night	ICR auto switch	
Camera							BLC	Yes	
Image Sensor		1/2.7"4Megapixel progressive CMOS					WDR	120 dB	
Effective Pixels		2688 (H) ×1520 (V)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
ROM		128 MB					Gain Control	Auto/Manual	
RAM		512 MB					Noise Reduction	3D DNR	
Scanning System		Progressive					Motion Detection	OFF/ON (4 areas, rectangular)	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Region of Interest(RoI)	Yes (4 areas)	
Min. Illumination		0.005 Lux@F1.5					Smart IR	Yes	
IR Distance		40 m (131.23 ft)					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080	
IR On/Off Control		Auto/Manual					Mirror	resolution.) Yes	
IR LEDs Number		2 (IR LEDs)					Privacy Masking	4 areas	
Pan/Tilt/Rotation Range		Horizontal: 0°–355°; vertical: 0°–75°; rotation: 0°–355°						4 areas	
Lens							Network		
Lens Type		Motorized vari-focal					Network	RJ-45 (10/100 Base-T)	
Mount Type		φ14					Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP	
Focal Length		2.7 mm–13.5 mm					Interoperability	ONVIF (Profile S/Profile G); CGI; P2P	
Max. Aperture		F1.5					Scene Self-adaptation	Yes	
Field of View		Horizontal: 104°–27° Vertical: 57° –15° Diagonal: 124° –31°					User/Host	20 (Total bandwidth: 64 M)	
Iris Type		Fixed aperture					Edge Storage	FTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS	
Close Focus Distance		0.8 m (2.6 ft)					Browser	IE IE8, IE9, IE11 Google Firefox	
	Lens	Detect	Observe	Recognize	Identify		Management Software	NVR; DSS; DMSS; IVSS	
DORI Distance	W	151 m (495.4 ft)	60.7 m (199.2 ft)	30.3 m (99.4 ft)	15.1 m (49.5 ft)		Mobile Phone	IOS; Android	
	Т	400 m (1312.3 ft)	160 m (524.9 ft)	80 m (262.5 ft)	40 m (131.2 ft)		Certification	105,74110101	
Professional,	Intellig		(324.5 10)	(202.5 11)	(131.211)		Certification	CE-LVD: EN60950-1	
Perimeter Protect		Tripwire; intrusion (Recognition of human and vehicle)					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos						UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
							Power	101/00/005	
Video	Video						Power Supply	12V DC/POE	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG					Power Consumption <7W		
Smart Codec		H.264: Yes H.265: Yes					Environment		
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps)					Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than≤95%	
		sub stream $(704 \times 576@1-25/30 \text{ fps})$ third stream $(1280 \times 720@1-25/30 \text{ fps})$					Strorage Conditions	-40°C to +60°C (-40°F to +140°F)	
Stream Capability		3 streams					Ingress Protection IP67; IK10		
Resolution		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Structure		
							Casing	Metal + Plastic	
Bit Rate Control		CBR; VBR					Dimensions	Φ122 mm × 88.9 mm (Φ4.8" × 3.5")	
		H.264: 3 Kbps-8192 Kbps					Net Weight	492 g (1.1 lb)	
Video Bit Rate		H.265: 3 Kbps–8192 Kbps					Gross Weight	663 g (1.5 lb)	

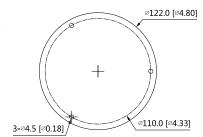
Lite Al Series | DH-IPC-HDBW3441R-ZS

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

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])





Accessories

Optional:



Junction Box



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

