

DH-IPC-HDBW3441E-AS

4MP Lite AI IR Fixed 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: 50 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						Bit Rate Control	CBR/VBR		
Camera				Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps				
Image Sensor		1/3" 4Megapixel progressive CMOS					Day/Night	Auto(ICR)/Color/B/W	
Effective Pixels		2688 (H) ×1520 (V)					BLC	Yes	
ROM		128 MB					HLC	Yes	
RAM		512 MB					WDR	120 dB	
Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					Gain Control	custom Auto/Manual	
Min. Illumination		0.005 Lux@F1.6					Noise Reduction	3D DNR	
IR Distance		50 m (164.0 ft)					Motion Detection	OFF/ON (4 areas, rectangular)	
IR On/Off Control		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)	
IR LEDs Number		3 (IR LEDs)					Smart IR	Yes	
Pan/Tilt/Rotatio	n Range	Horizontal: 0°–355°; vertical: 0°–65°; rotation: 0°–355°					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080	
Lens							image Notation	resolution.)	
Lens Type Mount Type		Fixed focal M12					Mirror	Yes	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Privacy Masking	4 areas	
Max. Aperture		F1.6					Audio		
un. riper ture		2.8 mm: Horizontal:103°; vertical: 55°; diagonal: 122°					Audio Compression	G.711a; G.711Mu; G726; AAC	
Field of View		3.6 mm: Horizontal:84°; vertical: 45°; diagonal: 100° 6 mm: Horizontal:52°; vertical: 28°; diagonal: 61°					Network		
Iris Type		Fixed aperture					Network	RJ-45 (10/100 Base-T) IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP;	
Close Focus Dist	ance	2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft)					Protocol	RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP; Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP	
		6 mm: 3.2 m (10.5 ft)					Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec	
	Lens	Detect 56.0 m	Observe 22.4 m	Recognize	Identify 5.6 m		Scene Self-adaptation	Yes	
DORI Distance	2.8mm	(183.7 ft)	(73.5 ft)	(36.8 ft)	(18.4 ft)		User/Host	20 (Total bandwidth: 64 M)	
DONI DISTAILCE	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.3 ft)		Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS	
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4ft)		Browser	IE: IE8, IE9, IE11 Chrome Firefox	
	Professional, Intellige						Management Software	Smart PSS, DSS, DMSS	
Perimeter Prote	ction	Tripwire; intrusion (Recognition of human and vehicle)					Mobile Phone	IOS; Android	
Intelligent Searc	h	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Certification	CE LVD. ENCODED 1	
Video							Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG						FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Smart Codec		Yes					Port		
Video Framo Pato		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps)					Audio Input	1-channel (RCA port)	
Video Frame Rate		third stream (1280 × 720@1–25/30 fps)					Audio Output	1-channel (RCA port)	
Stream Capabilit	Stream Capability		3 streams				Alarm Input	1 channel in: 5mA 3V–5V DC	
Resolution		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704					Alarm Output	1 channel out: 300mA 12V DC	
		× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Power		

Lite Al Series | DH-IPC-HDBW3441E-AS

Power Supply	12V DC/PoE (802.3af)	
Power Consumption	<7.3W	
Environment		
Operating Conditions	-40°C to +60°C (-40°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	81 mm × Φ109.9 mm (3.2" × Φ4.3")
Net Weight	378 g (0.8 lb)
Gross Weight	523 g (1.2 lb)

Ordering Information					
Туре	Part Number	Description			
4MP	DH-IPC-HDBW3441EP-AS	4MP Lite AI IR Fixed focal Dome Network Camera,PAL			
Camera	DH-IPC-HDBW3441EN-AS	4MP Lite AI IR Fixed focal Dome Network Camera,NTSC			
	PFA136	Junction Box			
	PFA200W	Rain Shade			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
	PFA106	Mount Adapter			
Accessories (optional)	PFB220C	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



PFA152-E Pole Mount



PFA106 Mount Adapter



PFB220C Ceiling 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
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])





