

DH-IPC-HDBW3241E-AS

2MP Lite AI IR Fixed focal Dome Network Camera



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.

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080)@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













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							Video Bit Rate	H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps	
Camera							Day/Night	Auto(ICR)/Color/B/W	
Image Sensor		1/2.8" 2Megapixel progressive CMOS					BLC	Yes	
Effective Pixels		1920 (H) ×1080 (V)					HLC	Yes	
ROM		128 MB					WDR	120 dB	
RAM		256 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional	
Scanning System		Progressive						custom	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Gain Control	Auto/Manual	
Min. Illumination		0.002 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	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 resolution.)	
Lens							Mirror	Yes	
Lens Type		Fixed focal					Privacy Masking	4 areas	
Mount Type		M12					Audio		
Focal Length		2.8 mm; 3.6 mm; 6 mm					Audio Compression	G.711a; G.711Mu; G726; AAC	
Max. Aperture		F1.6					Network		
Field of View		2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126° 3.6 mm: Horizontal:87°; vertical: 46°; diagonal: 104°					Network	RJ-45 (10/100 Base-T)	
Iris Type		6 mm: Horizontal:54°; vertical: 29°; diagonal: 63° Fixed aperture					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	
Close Focus Dist	ance	2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft)					Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec	
Close Focus Dist	ance	6 mm: 2.5 m					Scene Self-adaptation	Yes	
	Lens	Detect	Observe	Recognize	Identify		User/Host	20 (Total bandwidth: 64 M)	
DORI Distance	2.8mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)		Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS	
DOM Distance	3.6mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)		Browser	IE: IE8, IE9, IE11 Chrome	
	6mm	82.8 m (271.7 ft)	33.1 m (108.6 ft)	16.6 m (54.5 ft)	8.3 m (27.2 ft)			Firefox	
Professional	, Intellige	ent					Management Software	Smart PSS, DSS, DMSS	
Perimeter Prote	ction	Tripwire; intrusion (Recognition of human and vehicle)					Mobile Phone IOS; Android		
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Certification	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive	
Video		videos					Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG					Port		
Smart Codec		Yes					Audio Input	1-channel (RCA port)	
Video Frame Rate		Main stream (1920 × 1080@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)					Audio Output	1-channel (RCA port)	
Stream Capability		3 streams					Alarm Input	1 channel in: 5mA 3V–5V DC	
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF					Alarm Output	1 channel out: 300mA 12V DC	
Resolution		(352 × 288/352 × 240)					Power		
Bit Rate Control		CBR/VBR					Power Supply	12V DC/PoE (802.3af)	

Lite Al Series | DH-IPC-HDBW3241E-AS

Power Consumption	<6.9W		
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")		

378 g (0.8 lb)

523 g (1.2 lb)

Ordering Information					
Туре	Part Number	Description			
2MP	DH-IPC-HDBW3241EP-AS	2MP Lite AI IR Fixed focal Dome Network Camera,PAL			
Camera	DH-IPC-HDBW3241EN-AS	2MP 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:

Net Weight

Gross Weight







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
			B
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])





