

DH-IPC-HDBW3241F-AS-M

2MP Lite AI IR Fixed focal Dome Network Camera



- 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 detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 G Micro SD card, built-in Mic
- 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.



Lite AI Series | DH-IPC-HDBW3241F-AS-M

Technical Specification

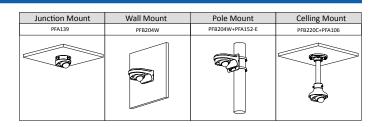
Camera					
Image Sensor		1/2.8"2Megapixel progressive CMOS			
Effective Pixels		1920 (H) ×1080 (V)			
ROM		128 MB			
RAM		256 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.002 Lux@F1.6			
IR Distance		50 m (164.0 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		8 (IR LEDs)			
Pan/Tilt/Rotation Range		Horizontal: -30° to 30°; vertical: 0° to 80°; rotation: 0° to 360°			
Lens					
Lens Type		Fixed focal			
Mount Type		M12			
Focal Length		2.8 mm; 3.6 mm; 6 mm			
Max. Aperture		F1.6			
Field of View		2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126° 3.6 mm: Horizontal:87°; vertical: 46° ; diagonal: 104° 6 mm: Horizontal:54°; vertical: 29°; diagonal: 63°			
Iris Type		Fixed aperture			
Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft) 6 mm: 2.5 m (8.2 ft)			
	Lens	Detect	Observe	Recognize	Identify
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)
	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)
	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)
Professional, Intelligent					
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)			

Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG
Smart Codec	Yes
Video Frame Rate	Main stream (1920 × 1080@1–25/30 fps) sub stream(704 × 576@1–25/30 fps) third stream(1280 × 720@1–25/30 fps)
Stream Capability	3 streams
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR

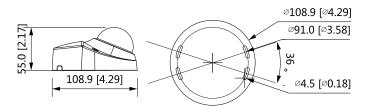
Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps			
Day/Night	Auto(ICR)/Color/B/W			
BLC	Yes			
HLC	Yes			
WDR	120 dB			
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom			
Gain Control	Auto/Manual			
Noise Reduction	3D DNR			
Motion Detection	OFF/ON (4 areas, rectangular)			
Region of Interest(RoI)	Yes (4 areas)			
Smart IR	Yes			
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution.)			
Mirror	Yes			
Privacy Masking	4 areas			
Audio				
Built-in MIC	Yes			
Audio Compression	G.711a; G.711Mu; G726; AAC			
Network				
Network	RJ-45 (10/100 Base-T)			
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP			
Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec			
Scene Self-adaptation	Yes			
User/Host	20 (Total bandwidth: 64 M)			
Edge Storage	FTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS			
Browser	IE: IE8, IE9, IE11 Chrome Firefox			
Management Software	Smart PSS, DSS, DMSS			
Mobile Phone	IOS; Android			
Certification				
Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B			
Power				
Power Supply	12V DC/PoE (802.3af)			
Power Consumption	<5.7W			
Environment				
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than \leq 95%			
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)			

Lite Al Series | DH-IPC-HDBW3241F-AS-M

Ingress Protection	IP67; IK10
Structure	
Casing	Metal + Plastic
Dimensions	55 mm × Φ108.9 mm (2.2" × Φ4.3")
Net Weight	380 g (0.8 lb)
Gross Weight	520 g (1.1 lb)



Dimensions (mm[inch])



Ordering Information

Туре	Part Number	Description	
2MP Camera	DH-IPC-HDBW3241FP-AS-M	2MP Lite AI IR Fixed focal Dome Network Camera,PAL	
	DH-IPC-HDBW3241FN-AS-M	2MP Lite AI IR Fixed focal Dome Network Camera,NTSC	
Accessories (optional)	PFA139	Junction Box	
	PFB204W	Wall Mount	
	PFA152-E	Pole Mount	
	PFB220C	Mount Adapter	
	PFA106	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:



PFA139 Junction Box



PFB220C Ceiling Mount



LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFB204W Wall Mount



PFA106 Mount Adapter



PFM900-E Integrated Mount tester

PFA152-E

Pole Mount

PFM321D DC12V1A Power Adapter



PFM114 TLC SD card



Rev 001.001 © 2019 Dahua . All rights reserved. Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.