

# DH-IPC-HFW3441E-SA

4MP Lite AI IR Fixed focal Bullet 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.

- 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 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 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, 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.

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 Sn	ecificati	on				Bit Rate Control	CBR/VBR
Technical Specification							H.264: 3 Kbps–8192 Kbps
Camera						Video Bit Rate	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) 128 MB				BLC	Yes
	ROM					HLC	Yes
RAM		512 MB				WDR	120 dB
Scanning System		Progressive				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				Gain Control	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 Contro	ol	Auto/Manual				Region of Interest(RoI)	Yes (4 areas)
IR LEDs Number		1 (IR LED)				Smart IR	
Pan/Tilt/Rotatio	n Range	Horizontal: 0°–360°; vertical: 0°–90°; rotation: 0°–360°				Smartik	Yes 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
Lens						Image Rotation	resolution.)
Lens Type		Fixed focal				Mirror	Yes
Mount Type		M12				Privacy Masking	4 areas
Focal Length		2.8 mm; 3.6 mm; 6 mm				Audio	
Max. Aperture		F1.6				Built-in MIC	Yes
Field of View		2.8 mm: Horizontal:103°; vertical: 55°; diagonal: 122° 3.6 mm: Horizontal:84°; vertical: 45°; diagonal: 100° 6 mm: Horizontal:52°; vertical: 28°; diagonal: 61°				Audio Compression	G.711a; G.711Mu; G726; AAC
Iris Type		Fixed aperture				Network	
		2.8 mm: 0.9 i	m (3.0 ft)			Network	RJ-45 (10/100 Base-T)
Close Focus Distance Lens		3.6 mm: 1.6 m (5.3 ft) 6 mm: 3.2 m (10.5 ft)  Detect Observe Recognize Identify				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
	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.8 ft)	5.6 m (18.4 ft)	Interoperability	ONVIF (Profile S/Profile G); CGI; P2P; Milestone; Genetec
DORI Distance	3.6mm	80.0 m	32.0 m	16.0 m	8.0 m	Scene Self-adaptation	Yes
	3.011111	(262.5 ft)	(105.0 ft)	(52.5 ft)	(26.3 ft)	User/Host	20 (Total bandwidth: 64 M)
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4ft)	·	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua
Professional	, Intellige	ent	nt			Edge Storage	Cloud; NAS
Perimeter Prote	Perimeter Protection		, 0	ition of human		Browser	IE: IE8, IE9, IE11 Chrome Firefox
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Management Software	Smart PSS, DSS, DMSS
Video						Mobile Phone	IOS; Android
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG				Certification	
Smart Codec		Yes					CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)				Certifications	
Stream Capability		3 streams				Power	
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)				Power Supply	12V DC/PoE (802.3af)
						Power Consumption	< 5.4W
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# Lite Al Series | DH-IPC-HFW3441E-SA

## 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		

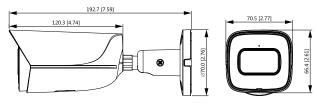
## Structure

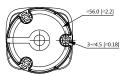
Casing	Metal
Dimensions	192.7 mm × 70.5 mm × 66.4 mm (632.2" × 231.3" × 217.8") (L × W × H)
Net Weight	590 g (1.3lb)
Gross Weight	780 g (1.7lb)

Ordering Information						
Туре	Part Number	Description				
4MP	DH-IPC-HFW3441EP-SA	4MP Lite AI IR Fixed focal Bullet Network Camera,PAL				
Camera	DH-IPC-HFW3441EN-SA	4MP Lite AI IR Fixed focal Bullet Network Camera,NTSC				
	PFA130-E	Junction Box				
	PFA152-E	Pole Mount				
Accessories	PFM321D	DC12V1A Power Adapter				
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	PFM114	TLC SD Card				

# Pole Mount PFA130-E+PFA152-E PFA130-E PFA130-E

# Dimensions (mm[inch])





# Accessories

# **Optional:**







PFA152-E Pole 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

