

DH-IPC-HFW3441E-SA

4MP Lite AI IR Fixed focal Bullet 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: 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, 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						Bit Rate Control	CBR; VBR
Camera						Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps
Image Sensor		1/2.7"4Megapixel progressive CMOS				Day/Night	ICR auto switch
Effective Pixels		2688 (H) ×1520 (V)				BLC	Yes
ROM		128 MB				WDR	120 dB
RAM		512 MB				White Balance	Auto/natural/street lamp/outdoor/manual/regional
Scanning System		Progressive				Gain Control	custom Auto/Manual
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				Noise Reduction	3D DNR
Min. Illumination		0.005 Lux@F1.6				Motion Detection	OFF/ON (4 areas, rectangular)
IR Distance		50 m (164.0 ft)				Region of Interest(RoI)	Yes (4 areas)
IR On/Off Control		Auto/Manual				Smart IR	Yes
IR LEDs Number		3 (IR LEDs)					0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
Pan/Tilt/Rotation	n Range	Horizontal: 0°–355°; vertical: 0°–65°; rotation: 0°–355°				Image Rotation	resolution.)
Lens						Mirror	Yes
Lens Type		Fixed focal				Privacy Masking	4 areas
Mount Type		M12				Network	
Focal Length		2.8 mm; 3.6 mm; 6 mm				Network	RJ-45 (10/100 Base-T)
Max. Aperture Field of View		F1.6 2.8 mm: Horizontal:103°; vertical: 55°; diagonal: 122° 3.6 mm: Horizontal:84°; vertical: 45°; diagonal: 100°				Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP
		6 mm: Horizontal:52°; vertical: 28°; diagonal: 61°				Interoperability	ONVIF (Profile S/Profile G); CGI; P2P
Iris Type		Fixed apertur				Scene Self-adaptation	Yes
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft) 6 mm: 3.2 m (10.5 ft)				User/Host	20 (Total bandwidth: 64 M)
	Lens	Detect	Observe	Recognize	Identify	Edge Storage	FTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
DON Distance	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)	Browser	IE IE8, IE9, IE11 Google Firefox
DORI Distance	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)	Management Software	NVR; DSS; DMSS; IVSS
	6mm	120.0 m (393.7 ft)	48.0 m	24.0 m	12.0 m	Mobile Phone	IOS; Android
Professional	Intellige					Certification	
Perimeter Prote	,	Tripwire; intrusion (Recognition of human and vehicle)					CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
		videos				Power	
Video						Power Supply	12V DC/POE
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG				Power Consumption	< 5.4W
Smart Codec		H.264: Yes H.265: Yes				Environment	
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25/30 fps) third stream (1280 × 720@1–25/30 fps)				Operating Conditions Strorage Conditions	-40°C to +60°C (-40°F to +140°F)/less than≤95% -40°C to +60°C (-40°F to +140°F)
Stream Capability		3 streams				Ingress Protection	IP67; IK10
, ,		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 ×				Structure	,
Resolution		1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				Casing	Metal + Plastic

Lite Al Series | DH-IPC-HFW3441E-SA

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-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				

Accessories

Optional:



PFA130-E Junction Box



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



PFA152-E Pole Mount



PFM900-E Integrated Mount tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD card

Pole Mount Junction Box PFA130-E+PFA152-E PFA130-E

Dimensions (mm[inch])





