



DH-IPC-HFW3441E-SA

4MP IR Fixed focal Bullet WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Dahua WizSense 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

- 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 (support the classification and accurate detection of vehicle and human)
- 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 supply
- IP67 protection
- · SMD Plus













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.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

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 Specification						-	Resolution	4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704	
Camera				Resolution	× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				
Image Sensor		1/3"4Megapixel progressive CMOS					Bit Rate Control	CBR/VBR	
Max. Resolution		2688 (H) ×1520 (V)					Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps	
ROM		128 MB					Day/Night	Auto(ICR)/Color/B/W	
RAM		512 MB					BLC	Yes	
Scanning System		Progressive					HLC	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					WDR	120 dB	
Min. Illumination	Min. Illumination		0.005 Lux@F1.6					Auto/natural/street lamp/outdoor/manual/regional	
S/N Ratio	S/N Ratio		> 56 dB				White Balance	custom	
Illumination Dist	ance	50 m (164.0 ft)					Gain Control	Auto/Manual	
Illuminator On/0	Off Control	Auto/Manual					Noise Reduction	3D DNR	
Illuminator Num	ber	1 (IR LED)					Motion Detection	OFF/ON (4 areas, rectangular)	
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°					Region of Interest(RoI)	Yes (4 areas)	
Lens							Smart Illumination	Yes	
Lens Type		Fixed-focal					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)	
Mount Type		M12					Mirror	Yes	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Privacy Masking	4 areas	
Max. Aperture		F1.6					Audio		
Field of View	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°				Built-in MIC	Yes	
Iris Type	Iris Tyne		Fixed				Audio Compression	G.711a; G.711Mu; G726; AAC	
		2.8 mm: 0.9 m (3.0 ft)				Alarm			
Close Focus Distance		3.6 mm: 1.6 m (5.3 ft) 6 mm: 3.2 m (10.5 ft) Detect Observe Recognize Identify				Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene		
	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)		Network	changing; intensity change; tripwire; intrusion; SMD	
DORI Distance	3.6mm	80.0 m	32.0 m	16.0 m	8.0 m		Network	RJ-45 (10/100 Base-T)	
		(262.5 ft) 120.0 m	(105.0 ft) 48.0 m	(52.5 ft) 24.0 m	(26.3 ft) 12.0 m		SDK and API	Yes	
	6mm	(393.7 ft)	(157.5 ft)	(78.7 ft)	(39.4ft)		3DK allu AFI	ies	
Professional	, Intellige	ent					Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP;	
Perimeter Prote	Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)					Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					Interoperability	ONVIF (Profile S/Profile G); CGI; P2P;Milestone;Genetec	
		videos					Scene Self-adaptation	Yes	
Video							User/Host	20 (Total bandwidth: 64 M)	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS	
Smart Codec		Smart H.265+/ Smart H.264+					Browser Management Software	IE: IE8, IE9, IE11 Chrome	
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)						Firefox Smart PSS, DSS, DMSS	
Stream Capability		3 streams					Mobile Phone	IOS; Android	
Stream Capability		5 50 50.75					Mobile Phone	103, Anarola	

Wiz Sense | DH-IPC-HFW3441E-SA

Certification

Certifications

CE-LVD: EN62368-1 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

Power

Power Supply	12V DC/PoE (802.3af)		
Power Consumption	< 5.4W		

Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than 95%			
Storage Conditions	-40°C to +60°C (-40°F to +140°F)			
Protection Grade	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 Part Number Description Type 4MP IR Fixed focal Bullet WizSense DH-IPC-HFW3441EP-SA Network Camera, PAL 4MP Camera 4MP IR Fixed focal Bullet WizSense DH-IPC-HFW3441EN-SA Network Camera, NTSC PFA130-E Junction Box PFA152-E Pole Mount PFM321D DC12V1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet LR1002-1ET/1EC Over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:







PFM321D

Adapter

PFA130-E Junction Box

PFA152-E DC12V1A Power Pole Mount



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



PFM900-E Integrated Mount tester

PFM114 TLC SD card

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

Dimensions (mm[inch])





