



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.



3 streams

Stream Capability

Technical Sp	ecificatio	on						4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080), 1 3M (1380 × 1080), 700p (1380 × 720), 11 (704
Camera							Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 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
ROM		128 MB					Day/Night	H.265: 3 Kbps–8192 Kbps 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		0.005 Lux@F1.6						Auto/natural/street lamp/outdoor/manual/regional
S/N Ratio		> 56 dB					White Balance	custom
Illumination Dist	tance	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/Rotatio	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	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ 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 Type		Fixed				Audio Compression	G.711a; G.711Mu; G726; AAC
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft)					Alarm	No SD card; SD card full; SD card error; less service time
	Lens	6 mm: 3.2 m Detect	(10.5 ft) Observe	Recognize	Identify		Alarm Event	of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; intensity change; tripwire; intrusion; SMD
	2.8mm	56.0 m	22.4 m	11.2 m	5.6 m			
DORI Distance		(183.7 ft) 80.0 m	(73.5 ft) 32.0 m	(36.8 ft) 16.0 m	(18.4 ft) 8.0 m		Network	
	3.6mm	(262.5 ft)	(105.0 ft)	(52.5 ft)	(26.3 ft)		Network	RJ-45 (10/100 Base-T)
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4ft)		SDK and API	Yes
Professional	, Intellige	nt					Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP;
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)					FIOLOCOI	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+ Main stream (2688 × 1520@1–25/30 fps)					Browser	IE: IE8, IE9, IE11 Chrome Firefox
Video Frame Rate		sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)					Management Software	Smart PSS, DSS, DMSS
Character C. 1 1111		2 - 1						

Mobile Phone

IOS; Android

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 Description Part Number 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:







PFA130-E Junction Box

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

Pole Mount	Junction Box	
PFA130-E+PFA152-E	PFA130-E	
	050	

Dimensions (mm[inch])





