

DH-IPC-HFW3441E-AS

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 abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Alarm: In, out; Audio: In, out; 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 Specification				D. 1	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-1/1000	00 s			WDR	120 dB
Min. Illumination	n	0.005 Lux@F1	1.6				White Balance	Auto/natural/street lamp/outdoor/manual/regional
S/N Ratio		> 56 dB					Wille balance	custom
Illumination Dist	ance	50 m (164.0 f	t)				Gain Control	Auto/Manual
Illuminator On/O	Off Control	Auto/Manual					Noise Reduction	3D DNR
Illuminator Num	ber	1 (IR LED)					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotatio	n Range	Pan: 0°-360°;	; Tilt: 0°–90°; F	Rotation: 0°–36	60°		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		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		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) 6 mm: 3.2 m (10.5 ft)					Alarm No SD card; SD card full; SD card error; less service time	
	Lens	Detect	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
	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)			exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD
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)		Network	
	6mm	120.0 m	48.0 m	24.0 m	12.0 m		Network	RJ-45 (10/100 Base-T)
Drofossional		(393.7 ft)	(157.5 ft)	(78.7 ft)	(39.4ft)		SDK and API	Yes
Professional, Intellige		Pripwire; intrusion (Recognition of human and vehicle)					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
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
temperit searell		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 Codec		Smart H.265+/ Smart H.264+				Browser	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)				Firefox		
22		third stream (1280 × 720@1–25/30 fps)				Management Software	Smart PSS, DSS, DMSS	

Mobile Phone

IOS; Android

Wiz Sense | DH-IPC-HFW3441E-AS

Certification

	CE-LVD: EN62368-1
Certifications	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

Port

Audio Input	1-channel (RCA port)
Audio Output	1-channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC

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			
Туре	Part Number	Description	
4MP Camera	DH-IPC-HFW3441EP-AS	4MP IR Fixed focal Bullet WizSense Network Camera,PAL	
	DH-IPC-HFW3441EN-AS	4MP IR Fixed focal Bullet WizSense Network Camera,NTSC	
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	

Accessories

Optional:







PFM321D

DC12V1A Power

Adapter

PFA130-E Junction Box

PFA152-E 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
	030

Dimensions (mm[inch])





