



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) 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.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

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 $1\,\mathrm{m}$ 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						Paralutian	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		0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
S/N Ratio	S/N Ratio					Gain Control	Auto/Manual
Illumination Dis	Illumination Distance		:)			Noise Reduction	3D DNR
Illuminator On/	Illuminator On/Off Control					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Nun	Illuminator Number					Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rotation Range		1 (IR LED) Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				Smart Illumination	Yes
Lens						Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)
Lens Type		Fixed-focal				Mirror	Yes
Mount Type		M12					
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°				Built-in MIC	Yes
ricia or view	Field of View			cal: 28°; diagon		Audio Compression	G.711a; G.711Mu; G726
Iris Type	Iris Type					Alarm	
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 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 changing; intensity change; tripwire; intrusion; SMD
	Lens	Detect	Observe	Recognize	Identify	Network	changing, mensity change, a prince, matusch, one
DODI 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)	Network	RJ-45 (10/100 Base-T)
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)	SDK and API	Yes
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4ft)	Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP
Professional	l, Intellige	nt					
Perimeter Protection Intelligent Search		Work togethe	r with Smart N	ion of human a VR to perform raction and me	refine	Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video		videos				Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)				Scene Self-adaptation (SSA)	Yes
Smart Codec		Smart H.265+/ Smart H.264+				User/Host	20 (Total bandwidth: 64 M)
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)				Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS IE: IE8, IE9, IE11
Stream Capability		3 streams				Browser	Chrome Firefox

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Management Software	Smart PSS, DSS, DMSS	
Mobile Phone	IOS; Android	
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 (7.6"×2.8"×2.6") (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-SA	4MP IR Fixed focal Bullet WizSense Network Camera,PAL			
	DH-IPC-HFW3441EN-SA	4MP IR Fixed focal Bullet WizSense 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

PFA152-E Pole Mount

DC12V1A Power Adapter



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	
	053	

Dimensions (mm[inch])





