

DH-IPC-HFW3841E-AS(-SA)

8MP IR Fixed focal Bullet WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI 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.

- \cdot 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840×2160) @20 fps (Al function enabled by default) and supports 8MP (3840×2160) @25/30 fps (when Al function disabled)
- H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max. IR distance: 30 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, and voltage detection
- Alarm: 1 in, 1 out (Only AS supports); audio: 1 in, 1 out
 (Only AS supports)
- · 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. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, Dahua network camera better meets the demands of cyber security and privacy protection.

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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification							8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1520);	
Camera							Resolution	1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA
Image Sensor		1/2.8"8Megapixel progressive CMOS				Bit Rate Control	(640 × 480); CIF (352 × 288/352 × 240) CBR/VBR	
Max. Resolution		3840 (H) × 2160 (V)						H.264: 3 kbps-8192 kbps
ROM		128 MB					Video Bit Rate	H.265: 3 kbps–8192 kbps
RAM		512 MB					Day/Night	Auto (ICR)/Color/B/W
Scanning System		Progressive					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					HLC	Yes
Min. Illuminatio	n	0.007 Lux @F1.4					WDR	120 dB
S/N Ratio		> 56 dB					Scene Self-adaptation	Yes
Illumination Distance		30 m (98.4 ft)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator On/Off Control		Auto/Manual					Gain Control	Auto/Manual
Illuminator Num	iber	1 (IR LED)					Noise Reduction	3D DNR
Pan/Tilt/Rotation Range		Pan: 0°-360° Tilt: 0°-90° Rotation: 0°-3					Motion Detection	OFF/ON (4 areas, rectangular)
Long		Rotation: 0 –360					Region of Interest (RoI)	Yes (4 areas)
Lens Tyne		Fixed facal					Smart Illumination	Yes
Lens Type Mount Type		Fixed-focal M12					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Focal Length		2.8 mm; 3.6 mm					Mirror	Yes
Max. Aperture		F1.4					Privacy Masking	4 areas
Field of View		2.8 mm: Horizontal 108° × Vertical 58° × Diagonal 127° 3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 100°					Audio	
Iris Type		Fixed					Built-in MIC	Yes
Close Focus Distance		2.8 mm: 1.4 m (4.6 ft) 3.6 mm: 2.4 m (7.9 ft)					Audio Compression	G.711a; G.711Mu; G726
	Lens	Detect	Observe	Recognize	Identify		Alarm	
DORI Distance	2.8 mm 3.6 mm	85.5 m (280.5 ft) 110.3 m	34.2 m (112.2 ft) 44.1 m	17.1 m (56.1 ft) 22.1 m	8.6 m (28.2 ft) 11.0 m			- AS: No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion
Professional, intellige		(361.9 ft) (144.7 ft) (72.5 ft) (36.1 ft)					Alayna Franch	detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; external alarm; SMD; safety exception
Perimeter Prote	Perimeter Protection		usion (support	the classification	on and		Alarm Event	-SA: No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.						disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; SMD; safety exception
Video							Network	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Network	RJ-45 (10/100 Base-T)
Smart Codec		Smart H.265+/ Smart H.264+					SDK and API	Yes
Video Frame Rate		Main stream: 3840 × 2160 @(1–20 fps by default) 3840 × 2160 @(1–25/30 fps when Al function disabled) sub stream:					Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
		704 × 576 @(1–25 fps)/704 × 480 @ (1–30 fps) third stream: 1920 × 1080 @(1–25/30 fps)					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
Stream Capability		3 streams						execution; trusted upgrade

Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
User/Host	20 (Total bandwidth: 72 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE8; IE9; IE11 Chrome Firefox
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
Port	
Audio Input	1 channel (RCA port) (Only- AS supports)
Audio Output	1 channel (RCA port) (Only- AS supports)
Alarm Input	1 channel in: 5mA 3V–5V DC (Only- AS supports)
Alarm Output	1 channel out: 300mA 12V DC (Only- AS supports)
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic power consumption: 3W (12V DC); 3.5W (PoE) Max. power consumption (WDR + H.265 + IR LED intensity): 5.5W (12V DC); 6.3W (PoE)
Environment	
Operating Conditions	-40° C to $+60^{\circ}$ C (-40° F to $+140^{\circ}$ F)/Less than 95% RH
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 (1.3 lb)
Gross Weight	780 g (1.7 lb)

Ordering Information				
Туре	Model	Description		
	DH-IPC-HFW3841EP-AS	8MP IR Fixed focal Bullet WizSense Network Camera, PAL		
8MP Camera	DH-IPC-HFW3841EN-AS	8MP IR Fixed focal Bullet WizSense Network Camera, NTSC		
	DH-IPC-HFW3841EP-SA	8MP IR Fixed focal Bullet WizSense Network Camera, PAL		

	DH-IPC-HFW3841EN-SA	8MP IR Fixed focal Bullet WizSense Network Camera, NTSC	
	IPC-HFW3841EP-AS	8MP IR Fixed focal Bullet WizSense Network Camera, PAL	
8MP Camera	IPC-HFW3841EN-AS	8MP IR Fixed focal Bullet WizSense Network Camera, NTSC	
	IPC-HFW3841EP-SA	8MP IR Fixed focal Bullet WizSense Network Camera, PAL	
	IPC-HFW3841EN-SA	8MP 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



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
0.30	

Dimensions (mm[inch])

