

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.

- 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.

Stream Capability

3 streams

Technical Specification					8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 ×			
Camera						Resolution	1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA	
Image Sensor	ge 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	ı	Progressive					BLC	Yes
Electronic Shutte	er Speed	Auto/Manual	1/3 s-1/100,0	00 s			HLC	Yes
Min. Illuminatio	n	0.007 Lux @F	1.4				WDR	120 dB
S/N Ratio		> 56 dB					Scene Self-adaptation	Yes
Illumination Dist		30 m (98.4 ft)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator On/0		Auto/Manual					Gain Control	Auto/Manual
Illuminator Num	iber	1 (IR LED)					Noise Reduction	3D DNR
Pan/Tilt/Rotation	n Range	Pan: 0°-360° Tilt: 0°-90°					Motion Detection	OFF/ON (4 areas, rectangular)
		Rotation: 0°–360°				Region of Interest (RoI)	Yes (4 areas)	
Lens				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 Dist	ance	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	
20010: 1	2.8 mm	85.5 m	34.2 m	17.1 m	8.6 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 detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; external alarm; SMD; safety exception -SA:
DORI Distance	3.6 mm	(280.5 ft) 110.3 m (361.9 ft)	(112.2 ft) 44.1 m (144.7 ft)	(56.1 ft) 22.1 m (72.5 ft)	(28.2 ft) 11.0 m (36.1 ft)			
Professional	, intellige						Alarm Event	
Perimeter Protection		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)						No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; SMD; safety exception
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.						
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: $3840 \times 2160 @ (1-20 \text{ fps by default})$ $3840 \times 2160 @ (1-25/30 \text{ fps when AI function disabled})$ 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	
Tideo Traine Rate		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	

certification; syslog; HTTPS; 802.1x; trusted boot; trusted

execution; trusted upgrade

Wiz Sense	DH-IPC-HFW3841E-AS(-SA)
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

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Operating Conditions	-40°C to +60°C (-40°F to +140°F)/Less than 95% RH
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67

intensity): 5.5W (12V DC); 6.3W (PoE)

Structure

Casing	Metal
Dimensions	192.7 mm \times 70.5 mm \times 66.4 mm (7.6" \times 2.8" \times 2.6") (L \times W \times H)
Net Weight	590 g (1.3 lb)
Gross Weight	780 g (1.7 lb)

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







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	

Dimensions (mm[inch])

