



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) 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 AI 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.

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.





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

Technical Sp	pecification	on				Stream Capability	3 streams
Camera	22330411						
Image Sensor		1/2.8"8Megapixel progressive CMOS				Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		3840 (H) × 2160 (V)				Resolution	
ROM 128 MB							
RAM 512 MB			Bit Rate Control	CBR/VBR			
Scanning System	n	Progressive				Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
Electronic Shutt	er Speed	Auto/Manual	1/3 s-1/100,0	00 s		Day/Night	Auto (ICR)/Color/B/W
Min. Illuminatio	on		1.4 (Color, 30IR F1.4 (B/W, 30IR lator on)	,		BLC	Yes Yes
S/N Ratio		> 56 dB	,			WDR	120 dB
Illumination Dis	tance	30 m (98.4 ft)			Scene Self-adaptation	
Illuminator On/	Off Control	Auto/Manual				(SSA)	Yes
Illuminator Nun		1 (IR LED)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Pan/Tilt/Rotatio	on Range	Pan: 0°-360° Tilt: 0°-90°	,			Gain Control	Auto/Manual
Pan/Tilt/Rotation Range		Rotation: 0°–360°				Noise Reduction	3D DNR
Lens						Motion Detection	OFF/ON (4 areas, rectangular)
Lens Type		Fixed-focal				Region of Interest (RoI)	Yes (4 areas)
Mount Type		M12				Smart Illumination	Yes
Focal Length		2.8 mm; 3.6 mm				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Max. Aperture		F1.4 2.8 mm: Horizontal 108° × Vertical 58° × Diagonal 127°			agonal 127°	Mirror	Yes
Field of View		3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 127			-	Privacy Masking	4 areas
Iris Type		Fixed		Audio			
Close Focus Dist	tance	2.8 mm: 1.4 m (4.6 ft) 3.6 mm: 2.4 m (7.9 ft)				Built-in MIC	Yes
	Lens	Detect	Observe	Recognize	Identify	Audio Compression	G.711a; G.711Mu; G726
DORI Distance	2.8 mm	85.5 m (280.5 ft)	34.2 m (112.2 ft)	17.1 m (56.1 ft)	8.6 m (28.2 ft)	Alarm	
	3.6 mm	110.3 m (361.9 ft)	44.1 m (144.7 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)		- AS:
Professional	l, intellige				(====		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
Perimeter Prote		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)			on and		
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.				Alarm Event	alarm; SMD; safety exception -SA: 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;
Video							
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)			ly supported		safety exception
Smart Codec		Smart H.265+/ Smart H.264+				Network	
		Main stream: 3840 × 2160		default)		Network	RJ-45 (10/100 Base-T)
Video Frame Rate		3840 × 2160 @(1–20 fps by default) 3840 × 2160 @(1–25/30 fps when AI function disabled) sub stream: 704 × 576 @(1–25 fps)/704 × 480 @ (1–30 fps)			·	SDK and API	Yes IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP,
		third stream: 1920 × 1080 @(1–25/30 fps)				Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QOS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP

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

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	
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	

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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 $+60$ °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

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	

8MP Camera	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
	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
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:



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
0-3)	

Dimensions (mm[inch])



