

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.

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.



Technical Specification					Stream Capability	3 streams		
Camera					8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×			
Image Sensor		1/2.8"8Megapixel progressive CMOS				Resolution	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)						
ROM		128 MB						
RAM		512 MB				Bit Rate Control	CBR/VBR	
Scanning System	1	Progressive					Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps
Electronic Shutte	er Speed	Auto/Manual	1/3 s-1/100,0	00 s			Day/Night	Auto (ICR)/Color/B/W
Min. Illumination		0.007 Lux@F1.4 (Color, 30IRE) 0.0007 Lux@F1.4 (B/W, 30IRE)				BLC	Yes	
		0 Lux (Illuminator on)				HLC	Yes	
S/N Ratio		> 56 dB					WDR	120 dB
Illumination Dist	ance	30 m (98.4 ft)				Scene Self-adaptation (SSA)	Yes	
Illuminator On/O	Off Control	Auto/Manual					, ,	Auto/natural/street lamp/outdoor/manual/regional
Illuminator Number		1 (IR LED)				White Balance	custom	
Pan/Tilt/Rotatio	n Range	Pan: 0°-360° Tilt: 0°-90°				Gain Control	Auto/Manual	
	G	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				Mirror	Yes	
Field of View		2.8 mm: Horizontal 108° × Vertical 58° × Diagonal 127° 3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 100°				Privacy Masking	4 areas	
Iris Type		Fixed				Audio		
Close Focus Dist	ance	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	34.2 m	17.1 m	8.6 m		Alarm	, ,
DONI DISTAILCE		(280.5 ft) 110.3 m	(112.2 ft) 44.1 m	(56.1 ft) 22.1 m	(28.2 ft) 11.0 m		7.101111	
	3.6 mm	(361.9 ft)	(144.7 ft)	(72.5 ft)	(36.1 ft)			- AS: No SD card; SD card full; SD card error; service life
Professional, intellige		nt					warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene	
Perimeter Prote	Perimeter Protection		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)				Alarm Event	changing; audio detection; voltage detection; external alarm; SMD; safety exception
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.				Admitted	-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	
Video					detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; SMD;			
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					safety exception	
Smart Codec		Smart H.265+/ Smart H.264+				Network		
Video Frame Rate		Main stream: 3840 × 2160		default)			Network	RJ-45 (10/100 Base-T)
		$3840 \times 2160 @ (1-20 \text{ fps by default})$ $3840 \times 2160 @ (1-25/30 \text{ fps when AI function disabled})$ sub stream: $704 \times 576 @ (1-25 \text{ fps})/704 \times 480 @ (1-30 \text{ fps})$ third stream: $1920 \times 1080 @ (1-25/30 \text{ fps})$				SDK and API	Yes	
						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	
			_ (= 25,50 ips	,				

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		

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 $+60$ °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	
	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	

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

Dimensions (mm[inch])

