

# DH-IPC-HFW3867E-AS-IL-ANZ

8MP Smart Dual Light Fixed-focal Bullet WizSense Network Camera



#### Wiz Sense

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

#### AI SSA

Dahua AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

#### SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

#### **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.

#### Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 ×2160)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 30 m and the max. warm light distance is 30 m.
- ROI, SMART H.264+/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two function 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.
- Supports max. 512 G Micro SD card; built-in Mic.
- 12 VDC/PoE power supply.
- IP67 protection.
- · SMD 4.0.
- · Supports AI SSA.
- SMD area can be set in warm light areas that support triggering alarms.



#### 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.

#### Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 work normally after soaking in 1 m deep water for 30 minutes. Wide voltage: The camera allows  $\pm$ 30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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#### **Technical Specification** Camera 1/2.7" CMOS Image Sensor 3840 (H) × 2160 (V) Max. Resolution ROM 256 MB 1 GB RAM Scanning System Progressive Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s 0.007 lux@F1.4 (Color, 30 IRE) 0.0007 lux@F1.4 (B/W, 30 IRE) Min. Illumination 0 lux (Illuminator on) S/N Ratio >56 dB Up to 30 m (98.43 ft) (IR) Illumination Distance Up to 30 m (98.43 ft) (Warm light) Illuminator On/Off Control Auto;Manual Illuminator Number 2 (Multi-core (IR + warm) light) Pan: 0°-360° Angle Adjustment Tilt: 0°-90° Rotation: 0°-360° Lens Lens Type Fixed-focal Lens Mount M12 Focal Length 2.8 mm; 3.6 mm Max. Aperture F1.4 2.8 mm: H: 110°; V: 58°; D: 132° Field of View 3.6 mm: H: 86°; V: 49°; D: 100° Iris Control Fixed 2.8 mm: 1.4 m (4.59 ft) Close Focus Distance 3.6 mm: 1.9 m (6.23 ft) Lens Detect Observe Recognize Identify 17.0 m 84.8 m 33.9 m 8.5 m 2.8 mm (278.22 ft) (111.22 ft) ( 55.77 ft) (27.89 ft) 98.7 m 39.5 m 19.7 m 9.9 m 3.6 mm (323.82 ft) (129.59 ft) (64.63 ft) ( 32.48 ft) DORI Distance \*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the

\*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

#### Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
SMD	SMD 4.0
AcuPick	Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.

AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.		
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos		
Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
AI Coding	AI H.265; AI H.264		
Video Frame Rate	Main stream: 3840 × 2160@(1–25/30 fps) Sub stream: 1920 × 1080@(1–25/30 fps) Third stream: 1920 × 1080@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.		
Stream Capability	3 streams		
Resolution	8M (3840 × 2160); 6M (3200 × 1800); 5M (3072 × 1728); 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Bit Rate Control	VBR;CBR;ABR		
Video Bit Rate	H.264: 3 kbps–16384 kbps; H.265: 3 kbps–16384 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Smart Illumination	Yes		
Smart Dual Light	Yes		
Defog	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)		
Mirror	Yes		
Privacy Masking	8 areas		
LDC	Yes		
Audio			
Built-in MIC	Yes, built-in Mic		
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723		

## Wiz Sense | DH-IPC-HFW3867E-AS-IL-ANZ

Alarm EventNo SD card; SD card full; SD card error; network disconnection; PL conflict; illegal access; motion detection; voltage detection; voltage detection; voltage detection; voltage detection; voltage detection; voltage detection; voltage detection; voltage detection; voltage detection; voltage detection	Alarm		
Network PortRI-45 (10/100 Base-T)SDK and APIYesNetwork ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; MITP; STMP; DHCP; DNS; DDNS; OoS; UPAP; NTP; MUTES; STMB, PPS SAMBA; PPPOE; SNMP; P2PInteroperabilityONVIF (Profile S & Profile G & Profile T & Profile M); CGIUser/Host20 (Total bandwidth: 64 M)StorageFTP; SFTP; Micro SD card (support max. 512 GB); NASBrowserChrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; Dolynk CareMobile ClientIOS;AndroidVeloe encryption;/Eirmware encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;JP/MAC filtering;Generation and importing of X.500 certification;svslog;HTTPS;802.1x;Trusted boot;Trusted varingCertificationsCE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EUAudio Input1 channel (RCA port)Audio Output1 channel (RCA port)Audio Output1 channel out: wet contact, 5 m A 3-5 VDCAlarm Output12 VDC/P6E (802.3af)Power Supply12 VDC/P6E (802.3af)Power Supply12 VDC/P6E (802.3af)Power SupplyBasic: 3.7 W (12 VDC); 1.0 W (PoE) (H.265 + WDR + warm light + intelligence on)	Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external	
SDK and APIYesNetwork ProtocolRTMP; SMTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DMCP; DNS; DSDNS; OGS; UPMP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP; P2PInteroperabilityONVIF (Profile S & Profile G & Profile T & Profile M); CGIUser/Host20 (Total bandwidth: 64 M)StorageFTP; SFTP; Micro SD card (support max. 512 GB); NASBrowserInteroperabilityMobile ClientIOS; AndroidMobile ClientIOS; Androidchrome; Firefoxinteropiperability, SSE, Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.SO9 certification; Syslog; HTTP; Sy82.1x; Trusted boot; Trusted 	Network		
Network ProtocolPH4; IP6; HTTP; CUD; ARP; RTP; BTSP; DUCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; CuS; UPAPP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2PInteroperabilityONVIF (Profile S & Profile G & Profile T & Profile M); CGIUser/Host20 (Total bandwidth: 64 M)StorageFTP; SFTP; Micro SD card (support max. 512 GB); NASBrowserSmart PSS Lite; DSS; DMSS; DoLynk CareManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk CareMobile ClientIOS;AndroidVideo encryption;Firmware encryption;Configuration encryption;Digest; MSSE; Account lockout;Security logs; PI/MAC filtering; Generation and importing of X. Sog certification; syslog; HTTP;S802.1x; Trusted boot; Trusted execution; Trusted upgrade; Session security; Security warningCertificationsCE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EUAudio Input1 channel (RCA port)Audio Output1 channel wet contact, 5 m A 3-5 VDCJour PowerI2 VOC/PoE (802.3af)PowerDevencePower Supply12 VOC/PoE (802.3af)Output1 channel wet contact, 5 und PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.Power ConsumptionBasic: 3.7 W	Network Port	RJ-45 (10/100 Base-T)	
Network ProtocolRTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2PInteroperabilityONVIF (Profile S & Profile G & Profile T & Profile M); CGIUser/Host20 (Total bandwidth: 64 M)StorageFTP; SFTP; Micro SD card (support max. 512 GB); NASBrowserIE: IE11; Chrome; FirefoxMobile ClientIOS;AndroidMobile ClientIOS;AndroidCyber SecurityVideo encrytion;Firmware encrytion;Configuration encrytion;Diges;WSSE;Account lockout;Security logs;IP/MAC filtering;Generation and importing of X.509 certification;syslog;HTTPS;802.1x;Trusted boot;Trusted vavarningCertificationsCE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EUAudio Input1 channel (RCA port)Audio Output1 channel (RCA port)Audio Output1 channel in: wet contact, 5 mA 3–5 VDCAlarm Input12 VDC/POE (802.3af)PowerSupplyPower Supply12 VDC/POE (802.3af)Dual Power BackupWhen the power adapter and POE provide power at the same time, disconnect one of them. The device will ight + intelligence on)	SDK and API	Yes	
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CertificationsCE-EMC: Electromagnetic Compatibility Directive 2014/30/EUPortAudio Input1 channel (RCA port)Audio Output1 channel (RCA port)Alarm Input1 channel in: wet contact, 5 mA 3–5 VDCAlarm Output1 channel out: wet contact, 300 mA 12 VDCPower12 VDC/PoE (802.3af)Power Supply12 VDC/PoE (802.3af)Dual Power BackupWhen the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.Power ConsumptionBasic: 3.7 W (12 VDC); 5.4 W (PoE); Max.: 8 W (12 VDC); 10 W (PoE) (H.265 + WDR + warm light + intelligence on)	Certification		
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Audio Output1 channel (RCA port)Alarm Input1 channel in: wet contact, 5 mA 3–5 VDCAlarm Output1 channel out: wet contact, 300 mA 12 VDCPower1 channel out: wet contact, 300 mA 12 VDCPower Supply12 VDC/PoE (802.3af)Dual Power BackupWhen the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.Power ConsumptionBasic: 3.7 W (12 VDC); 5.4 W (PoE); Max.: 8 W (12 VDC); 10 W (PoE) (H.265 + WDR + warm light + intelligence on)	Port		
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Power Supply12 VDC/PoE (802.3af)Dual Power BackupWhen the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.Power ConsumptionBasic: 3.7 W (12 VDC); 5.4 W (PoE); Max: 8 W (12 VDC); 10 W (PoE) (H.265 + WDR + warm 	Alarm Output	1 channel out: wet contact, 300 mA 12 VDC	
Dual Power BackupWhen the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.Power ConsumptionBasic: 3.7 W (12 VDC); 5.4 W (PoE); Max.: 8 W (12 VDC); 10 W (PoE) (H.265 + WDR + warm light + intelligence on)	Power		
Dual Power Backupthe same time, disconnect one of them. The device will continue to work, but will not restart.Power ConsumptionBasic: 3.7 W (12 VDC); 5.4 W (PoE); Max.: 8 W (12 VDC); 10 W (PoE) (H.265 + WDR + warm light + intelligence on)	Power Supply	12 VDC/PoE (802.3af)	
Power Consumption Max.: 8 W (12 VDC); 10 W (PoE) (H.265 + WDR + warm light + intelligence on)	Dual Power Backup	the same time, disconnect one of them. The device will	
Environment	Power Consumption	Max.: 8 W (12 VDC); 10 W (PoE) (H.265 + WDR + warm	
	Environment		

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95% (RH), non-condensing
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95% (RH), non-condensing
Protection	IP67

### Structure

Casing Material	Metal
Product Dimensions	192.7 mm × 70.5 mm × 66.4 mm (7.59" × 2.78" × 2.61") (L × W × H)
Net Weight	610 g (1.34 lb)
Gross Weight	770 g (1.70 lb)

#### **Ordering Information**

Туре	Model	Description
IP CAMERA	DH-IPC-HFW3867E-AS-IL- ANZ	8MP Smart Dual Light Fixed-focal Bullet WizSense Network Camera
Accessories (Optional)	DH-PFA130-E	Water-proof Junction Box
	G3416GW	G3/4" Water Joint
	DH-PFA151	Corner Mount Bracket
	DH-PFA152-E	Pole Mount Bracket
	DH-PFA134	Junction Box
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM321D-EN	DC12V 1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	РҒМ900-Е	Integrated Mount Tester
	DHI-TF-P100/512GB	MicroSD Card

#### Accessories

Optional:



DH-PFA130-E

Water-proof Junction Box



G3416GW DH-PFA151 G3/4" Water Joint Corner Mount Bracket



DH-PFA152-E Pole Mount Bracket



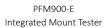
DH-PFM321D-EN DC12V 1A power adapter DC12V2A power adapter



DH-PFM320D-EN

DH-PFA134

Junction Box

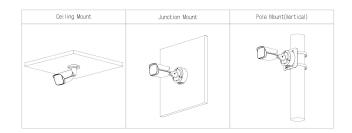


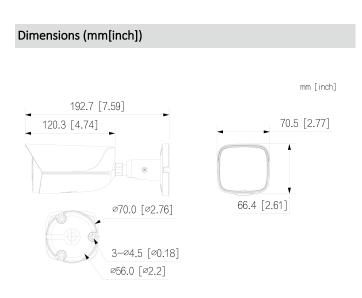
DH-PFM321-EN

DC12V1A power adapter

DHI-TF-P100/512GB MicroSD Card

www.dahuasecurity.com





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