

# DH-IPC-HFW3841E-AS(-SA)

8MP IR 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

#### **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.

- $\cdot$  8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840 × 2160) @20 fps (AI 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  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



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## **Technical Specification**

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Image Sensor       1/2.8°8Megapikel progressive CMOS         Max. Resolution       3840 (H) × 2160 (V)         ROM       128 MB         RAM       512 MB         Scanning System       Progressive         Electronic Shutt=read       Auto/Manual 1/3 s-1/100,000 s         Min. Illumination       0.0007 Lux@F1.4 (Color, 30RE) 0.0007 Lux@F1.4 (B/W 30RE) 0.0007 Lux@F1.4 (B/M 30RE) 0.0007 Lux@F1.4 (B/M 30RE) 0.0007 Lux@F1.4 (D/M 30RE) 0.0007 Lux@F1.4 (D/M 30RE) 0.0007 Lux@F1.4 (D/M 30RE) 0.0007 Lux@F1.4 (D/M 30RE) 0.0007 Lux@F1.4 (B/M 30RE) 0.0007 Lux@F1.4 (D/M 30RE) 0.0007 Lux@F1.							
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<td colspac<="" td=""><td>ROM</td><td></td><td>128 MB</td><td></td><td></td><td></td></td>	<td>ROM</td> <td></td> <td>128 MB</td> <td></td> <td></td> <td></td>	ROM		128 MB			
Auto/Manual J/3 s=1/100,000 sField of ViewAuto/Manual J/3 s=1/100,000 sS/N Ratio $0.007 Lux @F1.4 (Color, 30) RE)0.007 Lux @F1.4 (R/W, 30) RE)0.Lux (IIIuminator on)S/N Ratio> 56 dBIIIumination Distance30 m (98.4 ft)IIIuminator On/OF ControlAuto/ManualIIIuminator NumberAuto/ManualPan/Tilt/Rotation RangeFire of -360°Pan/Tilt/Rotation RangeFixed-focalPan/Tilt/Rotation VFixed-focalPan/Tilt/Rotation VFixed-focalItel Samma VSamma Samma VPan/Tilt/Rotation VFixed-focalPan/Tilt/Rotation VFixed-focalColspan="2">Fixed-focalFixed-focalFixed Samma VSamma Samma VFixed Samma VSamma V/// Samma V/// Samma$	RAM		512 MB				
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Min. Illumination0.0007 Lux@F1.4 (B/W, 30/RE) 0 Lux (Illuminator on)S/N Ratio> 56 dBIllumination Distance30 m (98.4 ft)Illuminator On/Off ControlAuto/ManualIlluminator Number1 (IR LED)Pan/Tilt/Rotation $1 (IR LEO)$ Pan/Tilt/Rotation: 0°-360° $7 \times 10^{\circ}$ (Secondaria)Pan/Tilt/Rotation: 0°-360°Fixed-focalLensFixed-focalMount TypeM12Focal LengthM12Focal Length1.14Fixed-focalSe mm: Horizortal 108° × Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 108° × Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 58° x Urical 45° x Diagonal 127° 3.6 mm: Horizortal 108° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 108° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 108° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 108° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 108° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 108° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 108° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 108° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 108° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 108° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 85° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 85° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 108° x Vertical 58° x Diagonal 127° 3.6 mm: Horizortal 85° x Vertical 58° x Diagonal 127° 3.6 mmPond Distance2.8 mm (36.1 ft) (36.1 ft) (36.1 ft)10.0 m (36.1 ft) (36.1 ft) (	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
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Pan/Tilt/RotationRangeReferencePan/Tilt/RotationRangeTilt: 0°-90° Rotation: 0°-360°LensFixed-focalLens TypeFixed-focalMount TypeM12Focal Length2.8 mm; 3.6 mmFocal Length2.8 mm; 3.6 mmMax. ApertureF1.4Field of View $2.8 mm: Horizontal 108° \times Vertical 58° \times Diagonal 127°3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 127°3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 127°3.6 mm: 2.4 m (7.9 ft)Iris TypeFixedClose Focus Distroe2.8 mm: 1.4 m (4.6 ft)3.6 mm: 2.4 m (7.9 ft)DORI Distance2.8 mm: 1.4 m (4.6 ft)3.6 mm2.8 mm: 1.4 m (4.6 ft)3.6 mm34.2 m(112.2 ft)DORI Distance2.8 mm: 100^{\circ}(28.0 5 ft)1103 m(36.1 9ft)34.2 m(144.7 ft)Professional-ittelligent110.3 m(36.1 9ft)Herise reference110.3 m(28.0 5 ft)1100 m(28.0 5 ft)11.0 m(28.0 5 ft)Intelligent SearchWork together with Smart NVR to perform refineintelligent search, event extraction and merging to event$	Illuminator On/Off Control		Auto/Manual				
Pan/Tilt/RotationTilt: 0°-90° Rotation: 0°-360°LensLens TypeFixed-focalMount TypeM12Mount TypeM12Focal Length2.8 mm; 3.6 mr.Max. ApertureF1.4Field of View2.8 mm: 108° × Vertical 58° × Diagonal 127° 3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 127° 3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 127° 3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 127° 3.6 mm: 1.4 m (4.6 ft) 3.6 mm: 2.4 m (7.9 ft)Iris TypeFixedClose Focus Distance2.8 mm: 1.4 m (4.6 ft) 3.6 mm: 2.4 m (7.9 ft)DORI DistanceLensObservea.6 mm (280.5 ft)34.2 m (112.2 ft)Jone 3.6 mm10.3 m (361.9 ft)Jone (280.5 ft)3.4.2 m (122.5 ft)Professional- intelligent SearchTripwire; intrusion (support the classification and accurate detection of vehicle and human)Intelligent SearchWork together with Smart NVR to perform refine intelligent search, event extraction and merging to event	Illuminator Number		1 (IR LED)				
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Field of View       2.8 mm: Horizontal 108° × Vertical 58° × Diagonal 127° 3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 127° 3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 100°         Iris Type       Fixed         Close Focus Distore       2.8 mm: 1.4 m (4.6 ft) 3.6 mm: 2.4 m (7.9 ft)         DORI Distance       Detect       Observe       Recognize         2.8 mm       10.0°       34.2 m       17.1 m       8.6 m         2.8 mm       (280.5 ft)       (112.2 ft)       (56.1 ft)       (28.2 ft)         3.6 mm       110.3 m       44.1 m       22.1 m       11.0 m         3.6 mm       (36.1 9 ft)       (144.7 ft)       (72.5 ft)       (36.1 ft)         Perimeter Protetion         Tripwire; intrusion (support the classification and accurate detection of vehicle and human)         Work together with Smart NVR to perform refine intelligent Search, event extraction and merging to event	Focal Length		2.8 mm; 3.6 mm				
Pield of View       3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 100°         Iris Type       Fixed         Close Focus Distance       2.8 mm: 1.4 m (4.6 ft) 3.6 mm: 2.4 m (7.9 ft)         DORI Distance       Detect       Observe       Recognize         100°       100°       3.6 mm: 2.4 m (7.9 ft)         DORI Distance       2.8 mm       34.2 m (112.2 ft)       17.1 m (56.1 ft)         3.6 mm       110.3 m (280.5 ft)       112.2 ft)       15.6 m (28.2 ft)         3.6 mm       110.3 m (361.9 ft)       44.1 m (72.5 ft)       11.0 m (36.1 ft)         Professional intelligent       Tripwire; intruston (support the classification and accurate detection of vehicle and human)       11.0 m (36.1 ft)         Perimeter Protetion       Tripwire; intruston (support the classification and accurate detection of vehicle and human)       1100 m (36.1 ft)         Intelligent Search       Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event	Max. Aperture		F1.4				
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Lens     Detect     Observe     Recognize     Identify       DORI Distance     2.8 mm     85.5 m     34.2 m     17.1 m     8.6 m       2.8 mm     (280.5 ft)     (112.2 ft)     (56.1 ft)     (28.2 ft)       3.6 mm     110.3 m     44.1 m     22.1 m     11.0 m       3.6 mm     (361.9 ft)     (144.7 ft)     (72.5 ft)     (36.1 ft)       Professional, intelligent       Tripwire; intrusion (support the classification and accurate detection of vehicle and human)       Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event	Iris Type		Fixed				
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)       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)       Professional, intelligent       Tripwire; intrusion (support the classification and accurate detection of vehicle and human)       Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event	Close Focus Distance						
DORI Distance     2.8 mm     (280.5 ft)     (112.2 ft)     (56.1 ft)     (28.2 ft)       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)       Professional, intelligent       Tripwire; intrusion (support the classification and accurate detection of vehicle and human)       Work together with Smart NVR to perform refine intelligent Search, event extraction and merging to event	DORI Distance	Lens	Detect	Observe	Recognize	Identify	
3.6 mm     (361.9 ft)     (144.7 ft)     (72.5 ft)     (36.1 ft)       Professional, intelligent       Tripwire; intrusion (support the classification and accurate detection of vehicle and human)       Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event		2.8 mm					
Perimeter Protection       Tripwire; intrusion (support the classification and accurate detection of vehicle and human)         Intelligent Search       Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event		3.6 mm					
Perimeter Protection         accurate detection of vehicle and human)           Work together with Smart NVR to perform refine intelligent Search         work together with Smart NVR to perform refine intelligent search, event extraction and merging to event	Professional	, intellige	nt				
Intelligent Search intelligent search, event extraction and merging to event	Perimeter Protection						
	Intelligent Search		intelligent search, event extraction and merging to event				

video
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Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Video Frame Rate	Main stream: 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) third stream: 1920 × 1080 @(1–25/30 fps)

Stream Capability	3 streams
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)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 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 DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (Rol)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Mirror	Yes
Privacy Masking	4 areas
Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; G726
Alarm	
Alarm Event	<ul> <li>- AS:</li> <li>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</li> <li>-SA:</li> <li>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</li> </ul>
Network	
Network	RJ-45 (10/100 Base-T)
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

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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 × 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**

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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



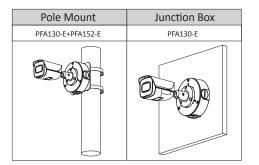
LR1002-1ET/1EC Single-port Long Reach Ethernet over

Coax Extender

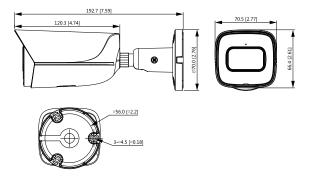
PFM900-E Integrated Mount Tester



PFM114 TLC SD Card



### Dimensions (mm[inch])



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