

# DH-IPC-HFW3241E-AS

2MP IR Fixed focal Bullet WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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.

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080)@30 fps
- H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 50 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 abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Alarm: In, out; Audio: In, out; 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.



Resolution
Max. Resolution   1920 (H) ×1080 (V)   Video Bit Rate   H.264: 3 kbps-8192 kbps
Max. Resolution  1920 (H) ×1080 (V)  ROM  128 MB  Day/Night  ICR auto switch  RAM  256 MB  BLC  Yes  Scanning System  Progressive  HLC  Yes  HLC  Yes  HLC  White Balance  O.002 Lux@F1.6 (Color, 30IRE) OLOUX (Illumination on)  S/N Ratio  Som (164.0 ft)  Illuminator On/Off Control  Auto/Manual  Illuminator Number  Pan/Tilt/Rotation Range  Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°  Image Potation  Oxy/Night  ICR auto switch  H.265: 3 Kbps-8192 Kbps  HLC  Yes  Auto/natural/street lamp/outdoor/manual/regional  Custom  Auto/natural/street lamp/outdoor/manual/regional  Custom  Gain Control  Auto/Manual  Noise Reduction  OFF/ON (4 areas, rectangular)  Figure Potation  O'Poo'/180*/270* (Support 90*/270* with 1920 × 1080  D'Poo'/180*/270* (Support 90*/270* with 1920 × 1080
RAM 256 MB BLC Yes  Scanning System Progressive HLC Yes  Electronic Shutter Speed Auto/Manual 1/3 s-1/100000 s WDR 120 dB  Min. Illumination 0.002 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0.0002 Lux@F1.6 (Lux.Bux.Bux.Bux.Bux.Bux.Bux.Bux
Scanning System Progressive Progressive  HLC Yes  WDR 120 dB  Min. Illumination  0.002 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)  S/N Ratio  S 6 dB  White Balance Gain Control Auto/Manual  Noise Reduction  Motion Detection  Pan/Tilt/Rotation Range Auto/natural/street lamp/outdoor/manual/regional custom  Auto/Manual  Noise Reduction  Motion Detection  Region of Interest(Rol)  Smart Illumination  Yes  Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°  Pan
Electronic Shutter Speed Auto/Manual 1/3 s-1/100000 s  Min. Illumination  0.002 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0.0002 Lux(BF1.6 (B/W,
Min. Illumination  O.002 Lux@F1.6 (Color, 30IRE) O.0002 Lux@F1.6 (B/W, 30IRE) O Lux (Illuminator on)  S/N Ratio  S/N Ratio  S/O m (164.0 ft)  Illuminator On/Off Control  Auto/Manual  Illuminator Number  I (IR LED)  Pan/Tilt/Rotation Range  Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°  Image Potation  White Balance  Auto/natural/street lamp/outdoor/manual/regional custom  Auto/Manual  Noise Reduction  Motion Detection  OFF/ON (4 areas, rectangular)  Yes (4 areas)  Smart Illumination  Yes  Image Potation  O°/90°/180°/270° (Support 90°/270° with 1920 × 1080)
Min. Illumination  0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)  S/N Ratio  > 56 dB  Illumination Distance  50 m (164.0 ft)  Illuminator On/Off Control  Auto/Manual  Motion Detection  Region of Interest(Rol)  Pan/Tilt/Rotation Range  Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°  Image Potation  White Balance  custom  Auto/Manual  Noise Reduction  OFF/ON (4 areas, rectangular)  Yes (4 areas)  Smart Illumination  Yes  Image Potation  0°/90°/180°/270° (Support 90°/270° with 1920 × 1080)
S/N Ratio > 56 dB  Illumination Distance 50 m (164.0 ft)  Illuminator On/Off Control Auto/Manual  Illuminator Number 1 (IR LED)  Pan/Tilt/Rotation Range Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°  Image Potation 0°-180°/270° (Support 90°/270° with 1920 × 1080°)  Image Potation 0°-90°/180°/270° (Support 90°/270° with 1920 × 1080°)
Illumination Distance 50 m (164.0 ft)  Illuminator On/Off Control Auto/Manual  Illuminator Number 1 (IR LED)  Pan/Tilt/Rotation Range Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°  Illuminator Number 2 Motion Detection OFF/ON (4 areas, rectangular)  Yes (4 areas)  Smart Illumination Yes  Image Potation 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080)
Illuminator On/Off Control Auto/Manual  Illuminator Number 1 (IR LED)  Pan/Tilt/Rotation Range Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°  Image Potation 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080)
Illuminator Number 1 (IR LED)  Pan/Tilt/Rotation Range Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°  Image Potation 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080)
Pan/Tilt/Rotation Range Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°  Image Potation 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
lmage Potation 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
Lens Type Fixed-focal Mirror Yes
Mount Type M12 Privacy Masking 4 areas
Focal Length 2.8 mm; 3.6 mm; 6 mm Audio
Max. Aperture F1.6 Built-in MIC Yes
2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126°  Field of View 3.6 mm: Horizontal:87°; vertical: 46°; diagonal: 104° Audio Compression 6.711a; G.711Mu; G726
Iris Type Fixed Alarm
2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft) 6 mm: 2.5 m (8.2 ft)  Alarm Event  No SD card; SD card full; SD card error; less service tim of SD card (smart card supports); network disconnecting IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire;
Lens Detect Observe Recognize Identify intrusion; SMD
2.8mm 38.6 m 15.4 m 7.7 m 3.9 m Network (12.6 ft) (50.5 ft) (25.3 ft) (12.8 ft)
DORI Distance 3.6mm
SDK and API Yes  82.8 m 33.1 m 16.6 m 8.3 m
Professional, Intelligent  (271.7 ft) (108.6 ft) (54.5 ft) (27.2 ft)  Protocol  Protocol  Protocol  Protocol  Protocol  Multicast; ICMP; IGMP; NFS; PPPoE; SNMP
Perimeter Protection  Tripwire; intrusion (Recognition of human and vehicle)  Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security lo.
Work together with Smart NVR to perform refine intelligent Search intelligent search, event extraction and merging to event videos  Cyber Security  IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trust execution; trusted upgrade
Interoperability  ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone
Video Compression  Video Compression  H.265; H.264; H.264B; MJPEG(only supported (SSA)  Video Compression  Video Compression  Video Compression  H.265; H.264; H.264B; MJPEG(only supported (SSA)
User/Host 20 (Total bandwidth: 64 M)
Smart Codec Smart H.265+/ Smart H.264+ Storage FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Main stream (1920 × 1080@1–25/30 fps)  Video Frame Rate  Sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)  Browser  Chrome Firefox
Stream Capability 3 streams Management Software Smart PSS, DSS, DMSS

# Wiz Sense | DH-IPC-HFW3241E-AS

WIZ Selise   DH-IPC-HFW3241E-AS		
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)	
Audio Output	1-channel (RCA port)	
Alarm Input	1 channel in: 5mA 3V–5V DC	
Alarm Output	1 channel out: 300mA 12V DC	
Power		
Power Supply	12V DC/PoE (802.3af)	
Power Consumption	< 5.2W	
Environment		

#### Structure

**Operating Conditions** 

Storage Conditions

Protection Grade

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 (1.3lb)
Gross Weight	780 g (1.7lb)

-40°C to +60°C (-40°F to +140°F)/less than 95%

-40°C to +60°C (-40°F to +140°F)

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-IPC-HFW3241EP-AS	2MP IR Fixed focal Bullet WizSense Network Camera,PAL		
	DH-IPC-HFW3241EN-AS	2MP 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



coax extender

LR1002-1ET/1EC Single-port long reach ethernet over



PFM900-E Integrated Mount tester



PFM114 TLC SD card

Pole Mount	Junction Box
PFA130-E+PFA152-E	PFA130-E
	0

# Dimensions (mm[inch])





