

# DH-IPC-HFW3241E-SA

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 detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · 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.



Stream Capability

3 streams

Technical Specification							Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Camera							Resolution	(352 × 288/352 × 240)
Image Sensor		1/2.8"2Megapixel progressive CMOS					Bit Rate Control	CBR/VBR
Max. Resolution		1920 (H) ×1080 (V)					Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps
ROM		128 MB					Day/Night	Auto(ICR)/Color/B/W
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 Lux (Illuminator on)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
C/N Datio							Gain Control	Auto/Manual
S/N Ratio		> 56 dB					Noise Reduction	3D DNR
Illumination Dis		50 m (164.0 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/Off Control		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
Illuminator Number		1 (IR LED)					Smart Illumination	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°					Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with $1920\times1080$ resolution and lower.)
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
F: 11 ()::		2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126°					Audio Compression	G.711a; G.711Mu; G726
Field of View		3.6 mm: Horizontal:87°; vertical: 46°; diagonal: 104° 6 mm: Horizontal:54°; vertical: 29°; diagonal: 63°					Alarm	
Iris Type		Fixed						No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection;
Close Focus Distance		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 IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; intensity change; tripwire; intrusion; SMD	
	Lens	Detect	Observe	Recognize	Identify		Network	
	2.8mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)		Network	RJ-45 (10/100 Base-T)
DORI Distance	3.6mm	55.2 m	22.1 m	11.0 m	5.5 m		SDK and API	Yes
	6mm	(181.1 ft) 82.8 m (271.7 ft)	(72.5 ft) 33.1 m (108.6 ft)	(36.1 ft) 16.6 m (54.5 ft)	(18.0 ft) 8.3 m (27.2 ft)		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP
Professiona	l, Intellige	ent						Video encryption; firmware encryption; configuration
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)					Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted procuring trusted larged.
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Interoperability	execution; trusted upgrade  ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Video							Scene Self-adaptation (SSA)	Yes
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					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
Video Frame Rate		Main stream (1920 × 1080@1–25/30 fps) sub stream(704 × 576@1–25 fps/704 × 480@1–30 fps) third stream(1280 × 720@1–25/30 fps)					Browser	IE: IE8, IE9, IE11 Chrome Firefox

Management Software

Smart PSS, DSS, DMSS

# Wiz Sense | DH-IPC-HFW3241E-SA

The Deliber			
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		
Power			
Power Supply	12V DC/PoE (802.3af)		
Power Consumption	< 5.2W		
Environment			
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than 95%		
Storage Conditions	-40°C to +60°C (-40°F to +140°F)		
Protection Grade	IP67		
Structure			
Casing	Metal		

192.7 mm × 70.5 mm × 66.4 mm

(7.6"×2.8"×2.6") (L × W × H)

590 g (1.3lb)

780 g (1.7lb)

Ordering Information						
Туре	Part Number	Description				
2MP Camera	DH-IPC-HFW3241EP-SA	2MP IR Fixed focal Bullet WizSense Network Camera, PAL				
	DH-IPC-HFW3241EN-SA	2MP IR Fixed focal Bullet WizSense Network Camera,NTSC				
	PFA130-E	Junction Box				
	PFA152-E	Pole Mount				
Accessories	PFM321D	DC12V1A Power Adapter				
(optional)	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



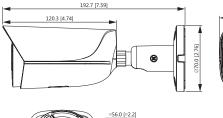
PFM900-E Integrated Mount tester

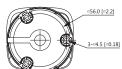


PFM114 TLC SD card

Pole Mount	Junction Box		
PFA130-E+PFA152-E	PFA130-E		
	050		

# Dimensions (mm[inch])





Dimensions

Net Weight

Gross Weight