



# DH-IPC-HFW3441E-SA

4MP 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.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520)@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.



Technical Specification								4M (2688 × 1520); 3M (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)
Camera						Resolution		
Image Sensor		1/3"4Megapixel progressive CMOS					Bit Rate Control	CBR/VBR
Max. Resolution		2688 (H) ×1520 (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		512 MB					BLC	Yes
Scanning System		Progressive					HLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					WDR	120 dB
Min. Illumination		0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
S/N Ratio		> 56 dB					Gain Control	Auto/Manual
Illumination Dis	tance	50 m (164.0 ft)					Noise Reduction	3D DNR
Illuminator On/	Illuminator On/Off Control		Auto/Manual				Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Nun	nber	1 (IR LED)					Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°					Smart Illumination	Yes
Lens							Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1920 \times 1080$ resolution and lower.)
Lens Type		Fixed-focal					Mirror	Yes
Mount Type		M12						
Focal Length		2.8 mm; 3.6 mm; 6 mm					Privacy Masking	4 areas
Max. Aperture	Max. Aperture		F1.6				Audio	v
Field of View				rtical: 55°; diag tical: 45°; diag			Built-in MIC	Yes
			6 mm: Horizontal:52°; vertical: 28°; diagonal: 61°				Audio Compression	G.711a; G.711Mu; G726
Iris Type		Fixed					Alarm	No SD card; SD card full; SD card error; less service time
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft) 6 mm: 3.2 m (10.5 ft)					Alarm Event	of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; intensity change; tripwire; intrusion; SMD
	Lens	Detect 56.0 m	Observe 22.4 m	Recognize	Identify 5.6 m		Network	
DORI Distance	2.8mm	(183.7 ft)	(73.5 ft)	(36.8 ft)	(18.4 ft)		Network	RJ-45 (10/100 Base-T)
DOM Distance	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.3 ft)		SDK and API	Yes
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4ft)		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						
Perimeter Prote	Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)				Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos						IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video							Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					Scene Self-adaptation (SSA)	Yes
Smart Codec		Smart H.265+/ Smart H.264+					User/Host	20 (Total bandwidth: 64 M)
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS IE: IE8, IE9, IE11
Stream Canability							Browser	Chrome Firefox
Stream Capability		3 streams						

# Wiz Sense | DH-IPC-HFW3441E-SA

WIZ SCIISC	BIT II C III WS441E 3/(		
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		
Power			
Power Supply	12V DC/PoE (802.3af)		
Power Consumption	< 5.4W		
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		
Dimensions	192.7 mm × 70.5 mm × 66.4 mm (7.6"×2.8"×2.6") (L × W × H)		

(7.6"×2.8"×2.6") (L × W × H)

590 g (1.3lb)

780 g (1.7lb)

Ordering Information					
Туре	Part Number	Description			
4MP Camera	DH-IPC-HFW3441EP-SA	4MP IR Fixed focal Bullet WizSense Network Camera, PAL			
	DH-IPC-HFW3441EN-SA	4MP 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









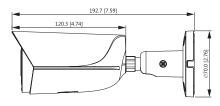
LR1002-1ET/1EC Single-port long reach ethernet over coax extender

PFM900-E Integrated Mount tester

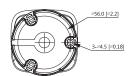
PFM114 TLC SD card

Pole Mount	Junction Box		
PFA130-E+PFA152-E	PFA130-E		
	0500		

# Dimensions (mm[inch])







Net Weight

Gross Weight