

# DH-IPC-HFW3541E-SA

5MP 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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

- 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 × 1944) @20 fps, and supports 4MP (2688 × 1520) @25/30 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.



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## **Technical Specification**

Camera					
Image Sensor		1/2.7"5Megapixel progressive CMOS			
Max. Resolution		2592 (H) ×1944 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.005 Lux@F1.6 (Color, 30IRE) 0.0005 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			
Illuminator Number		1 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm; 3.6 mm; 6 mm			
Max. Aperture		F1.6			
Field of View		2.8 mm: Horizontal: 98°; vertical: 72°; diagonal: 130° 3.6 mm: Horizontal: 80°; vertical: 59° ; diagonal: 106° 6 mm: Horizontal: 50°; vertical: 36°; diagonal: 64°			
Iris Type		Fixed			
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)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.8 ft)	5.6 m (18.4 ft)
	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)
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4ft)
Professional, Intelligent					
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)			
		Work together with Smart NVR to perform refine			

	mpwire, inclusion (needBindon of numun and venicle)		
Intelligent 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+		
Video Frame Rate	Main stream (2592 × 1944@1–20 fps) (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)		
Stream Capability	3 streams		

Resolution	5M (2592 × 1944); 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)		
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		
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(RoI)	Yes (4 areas)		
Smart Illumination	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 $\times$ 1080 resolution and lower.)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	Yes		
Audio Compression	G.711a; G.711Mu; G726		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; less service time 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		
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; PPPoE; SNMP		
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		
Scene Self-adaptation (SSA)	Yes		
User/Host	20 (Total bandwidth: 64 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		

# Wiz Sense | DH-IPC-HFW3541E-SA

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)
Net Weight	590 g (1.3lb)
Gross Weight	780 g (1.7lb)

#### Accessories

#### **Optional:**



PFA130-E

Junction Box

1 in 1 LR1002-1ET/1EC

Single-port long

reach ethernet over

coax extender



PFA152-E

Pole Mount

PFM900-E

Integrated Mount

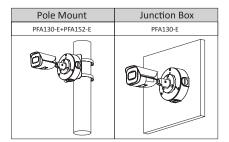
tester



PFM321D DC12V1A Power Adapter



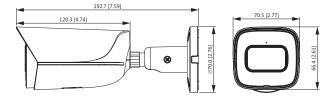
PFM114 TLC SD card

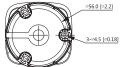


### Dimensions (mm[inch])

### **Ordering Information**

Туре	Part Number	Description	
5MP Camera	DH-IPC-HFW3541EP-SA	5MP IR Fixed focal Bullet WizSense Network Camera,PAL	
	DH-IPC-HFW3541EN-SA	5MP 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	







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