



# DH-IPC-HFW3541E-AS

5MP 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.

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



Technical Sp	ecificatio	on				Resolution	5M (2592 × 1944); 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Camera						nesolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.7"5Megapixel progressive CMOS			Bit Rate Control	CBR/VBR	
Max. Resolution		2592 (H) ×1944 (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 Systen	n	Progressive				HLC	Yes
Electronic Shutt	er Speed	Auto/Manual	1/3 s-1/10000	00 s			
Min. Illuminatio	n		1.6 (Color, 30IF -1.6 (B/W, 30IF ator on)			WDR White Balance	120 dB  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)					
Illuminator On/0	Off Control	Auto/Manual				Noise Reduction	3D DNR
Illuminator Num	nber	1 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation	n Range	Pan: 0°-360°:	Tilt: 0°-90°: R	otation: 0°–360	)°	Region of Interest(RoI)	Yes (4 areas)
Lens	ge	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°			Smart Illumination	Yes	
Lens Type		Fixed-focal			Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with $1920\times1080$ resolution and lower.)	
Mount Type		M12				Mirror	Yes
Focal Length		2.8 mm; 3.6 mm; 6 mm			Privacy Masking	4 areas	
Max. Aperture		F1.6			Audio		
Field of View	Field of View		2.8 mm: Horizontal: 98°; vertical: 72°; diagonal: 130° 3.6 mm: Horizontal: 80°; vertical: 59°; diagonal: 106°			Built-in MIC	Yes
		6 mm: Horizo	ntal: 50°; vert	ical: 36°; diagoı	nal: 64°	Audio Compression	G.711a; G.711Mu; G726
Iris Type		Fixed			Alarm		
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	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	
	Lens	Detect 56.0 m	Observe 22.4 m	Recognize	Identify 5.6 m		exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD
DON Distance	2.8mm	(183.7 ft)	(73.5 ft)	(36.8 ft)	(18.4 ft)	Network	
DORI 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)	Network	RJ-45 (10/100 Base-T)
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4ft)	SDK and API	Yes
Professional, Intellige					Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;	
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)					Multicast; ICMP; IGMP; NFS; PPPoE; SNMP
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				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
Video			execution; trusted upgrade  ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone;				
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)				Interoperability  Scene Self-adaptation	Genetec
Smart Codec		Smart H.265+/ Smart H.264+			(SSA)	Yes	
			(2592 × 1944@			User/Host	20 (Total bandwidth: 64 M)
Video Frame Rate		(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 Capability		3 streams			Browser	Chrome Firefox	

## Wiz Sense | DH-IPC-HFW3541E-AS

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)
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	< 5.4W		

## 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)

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



Junction Box

PFA130-E PF.



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	
	056)	

## Dimensions (mm[inch])





