

## DH-IPC-HFW3541T-ZS

5MP IR Vari-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) 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: 60 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 tempering, scene changing, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 G Micro SD card
- 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.



## Wiz Sense | DH-IPC-HFW3541T-ZS

#### **Technical Specification**

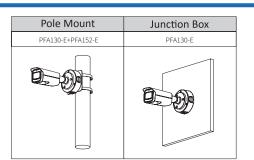
Camera						
Image Sensor		1/2.7"5Megapixel progressive CMOS				
Max. Resolution		2592 (H) ×1944 (V)				
ROM		128 MB				
RAM		512 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				
Min. Illumination		0.005 Lux@F1.5 (Color, 30IRE) 0.0005 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)				
S/N Ratio		> 56 dB				
Illumination Distance		60 m (197 ft)				
Illuminator On/Off Control		Auto/Manual				
Illuminator Number		4 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				
Lens						
Lens Type		Motorized vari-focal				
Mount Type		φ14				
Focal Length		2.7 mm–13.5 mm				
Max. Aperture		F1.5				
Field of View		Horizontal: 99°–26° Vertical: 72°–20° Diagonal: 133°–33°				
Iris Type	Iris Type		Fixed			
Close Focus Distance		0.8 m (2.6 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	w	64.0 m (210.0ft)	25.6 m (84.0 ft)	12.8 m (42.0 ft)	6.4 m (21.0 ft)	
	т	222.0 m (728.3 ft)	88.8m (291.3 ft)	44.4 m (145.7 ft)	22.2 m (72.8 ft)	
Professional, Intelligent						

Perimeter Protection	Tripwire; intrusion (Recognition of human and vehicle)	
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)	

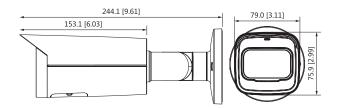
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D DNR		
Motion Detection	OFF/ON (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		
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;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; truster 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		
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		

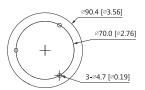
### Wiz Sense | DH-IPC-HFW3541T-ZS

Power		
Power Supply	12V DC/PoE (802.3af)	
Gross Weight	1090 g (2.4lb)	
Power Consumption	< 9.8W	
Environment		
Operating Conditions	-30°C to +60°C (-22°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	244.1 mm × 79.0 mm × 75.9 mm (9.6" × 3.1" × 3.0") (L × W × H)	
Net Weight	820 g (1.8lb)	
Gross Weight	1090 g (2.4lb)	



#### Dimensions (mm[inch])





# Type Part Number Description 5MP DH-IPC-HFW3541TP-ZS SMP IR Vari-focal Bullet WizSense Network Camera, PAL 5MP DH-IPC-HFW3541TN-ZS SMP IR Vari-focal Bullet WizSense

**Ordering Information** 

Camera	DH-IPC-HFW3541TN-ZS	5MP IR Vari-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



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

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