



# DH-IPC-HFW3441T-ZAS

4MP IR Vari-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, fast moving, parking detection, loitering detection and gathering detection) 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: 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 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
- 12V DC/POE power supply
- IP67, IK10(optional) 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				Bit Rate Control	CBR/VBR
Camera						Video Bit Rate	H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps
Image Sensor		1/3"4Megapixel progressive CMOS			Day/Night	Auto(ICR)/Color/B/W	
Max. Resolution		2688 (H) ×1520 (V)			BLC	Yes	
ROM		128 MB				HLC	Yes
RAM		512 MB				WDR	120 dB
Scanning System		Progressive					Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s			White Balance	custom	
Min. Illumination		0.005 Lux@F1.5 (Color, 30IRE) 0.0005 Lux@F1.5 (B/W, 30IRE)				Gain Control  Noise Reduction	Auto/Manual 3D DNR
S/N Ratio		0 Lux (Illuminator on) > 56 dB				Motion Detection	OFF/ON (4 areas, rectangular)
Illumination Dist	ance	> 56 dB 60 m (197 ft)				Region of Interest(RoI)	Yes (4 areas)
		Auto/Manual				Smart Illumination	Yes
Illuminator On/Off Control Illuminator Number		4 (IR LED)				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				Mirror	Yes
Lens					Privacy Masking	4 areas	
Lens Type		Motorized vari-focal			Audio	1.00	
Mount Type		ф14			Audio Compression	G.711a; G.711Mu; G726	
Focal Length		2.7 mm-13.5 mm			Alarm	G.711a, G.71ma, G720	
Max. Aperture Field of View		F1.5  Horizontal: 104°–27°  Vertical: 55° –15°  Diagonal: 124° –31°				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; input abnormal; intensity change; tripwire;
Iris Type		Fixed					intrusion; SMD
Close Focus Dista	ance	0.8 m (2.6 ft)			Network		
	Lens	Detect	Observe	Recognize	Identify	Network	RJ-45 (10/100 Base-T)
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)	SDK and API	Yes
5 ( ; )	T	222.0 m (728.3 ft)	88.8m (291.3 ft)	44.4 m (145.7 ft)	22.2 m (72.8 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; SMMP
Professional,	_						
Perimeter Protection  Intelligent Search		Tripwire; intrusion (Recognition of human and vehicle)  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 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)				Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Stream Capability		third stream (1280 × 720@1–25/30 fps) 3 streams				Browser	IE: IE8, IE9, IE11 Chrome Firefox
		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704				Management Software	Smart PSS, DSS, DMSS
Resolution		× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			Mobile Phone	IOS; Android	

# Wiz Sense | DH-IPC-HFW3441T-ZAS

# Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
	LII /CLII - LII COOFO 1 CANI/CCA COO 2 No COOFO 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	<9.8W

### Environment

Operating Conditions	$-30^{\circ}\text{C to } +60^{\circ}\text{C} $
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)

#### **Ordering Information** Part Number Type Description 4MP IR Vari-focal Bullet WizSense DH-IPC-HFW3441TP-ZAS Network Camera,PAL 4MP Camera 4MP IR Vari-focal Bullet WizSense DH-IPC-HFW3441TN-ZAS Network Camera, NTSC PFA130-E Junction Box PFA152-E Pole Mount PFM321D DC12V1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet LR1002-1ET/1EC 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

# Dimensions (mm[inch])



