



# DH-IPC-HFW3842T-ZAS

8MP 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**

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Quick Pick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

### **Functions**

### **SMD 4.0**

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

### AI SSA

Dahua AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

### 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.

- 8-MP 1/1.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 8 MP (3840 × 2160) @25/30 fps.
- H.265 codec, high compression rate, ultra-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 NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · Supports the AFSA (Anti-flicker Self-adaption) function, which automatically eliminates flicker.
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human).
- · Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- · IP67 protection.
- SMD 4.0, AI SSA.













### **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

### 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

### **Cyber Security**

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from comprising the device.

Technical Specification					Main stream: 3840 × 2160 @ (1–25/30) fps Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @			
Camera						Video Frame Rate	(1–30 fps) Sub stream 2: 1920 × 1080 @ (1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected	
Image Sensor		1/1.8" CMOS						
Max. Resolution		3840 (H) × 2160 (V)				Stream Capability	to the total encoding capacity  3 streams	
ROM		128 MB				Stream capability	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×	
RAM	RAM		1 GB				Resolution	1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704×480); CIF (352 × 288/352 × 240); VGA
Scanning Sys	tem	Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				Bit Rate Control	(640 × 480) CBR/VBR	
Min. Illumina	Min. Illumination		0.003 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				Video Bit Rate	H.264: 3 kbps–16384 kbps H.265: 3 kbps–16384 kbps
S/N Ratio		>56 dB				Day/Night	Auto (ICR)/Color/B/W	
Illumination	Distance	Up to 60 m (196.85 ft)				BLC	Yes	
Illuminator (	On/Off Control	Auto/Manual				HLC	Yes	
Illuminator N	lumber	4 (IR LED)				WDR	120 dB	
Angle Adjustment		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				Scene Self-adaptation (SSA)	Yes	
Lens					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Lens Type	Lens Type		Motorized vari-focal				Gain Control	Auto
Lens Mount	Lens Mount		ф14				Noise Reduction	3D NR
Focal Length	Focal Length		2.7 mm-12 mm				Motion Detection	OFF/ON (4 areas, rectangular)
Max. Apertu	Max. Aperture		F1.6				Image Stabilization	Electronic Image Stabilization (EIS)
Field of View	,	H: 113°-47° V: 60° -26°				Region of Interest (RoI)	Yes (4 areas)	
Iric Control		D: 133° –53°				Defog	Yes	
Iris Control	Di-t	Fixed				AFSA	Yes	
Close Focus	Lens	1.2 m (3.94 ft)  Detect Observe Recognize Identify			Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)		
DORI		83.4 m	33.4 m	16.7 m	8.3 m		Mirror	Yes
Distance	W	(273.62 ft)	(109.58 ft)	(54.79 ft)	(27.23 ft)		Privacy Masking	4 areas
	Т	189.6 m (622.05 ft)	75.8 m (248.69 ft)	37.9 m (124.34 ft)	19.0 m (62.34 ft)		Audio	
Intelligen	ce						Built-in Mic	Yes, built-in Mic
IVS (Perimet	er Protection)	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)				Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions				Alarm		
Quick Pick	Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events				Alarm Event	No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Alaini Event	detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; safety exception	
Video	Video				Network			
Video Comp	Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				Network Port	RJ-45 (10/100 Base-T)
Smart Codeo		Smart H.265+				SDK and API	Yes	
Al Coding			Smart H.264+  AI H.265 AI H.264			Network 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; P2P	
	AI H.264							

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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		
User/Host	20 (Total bandwidth: 64 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS		
Browser	IE: IE11 Chrome Firefox		
Management Software	SmartPSS Lite; DSS; DMSS		
Mobile Client	IOS; Android		

# Certification

	CE-LVD: EN62368-1;
Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU

### Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: wet contact, 5 mA 3 V–5 VDC
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC

### Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 3.6 W (12 VDC); 4.4 W (PoE) Max. (WDR + IR intensity + Intelligence): 8.9 W (12 VDC); 10.4 W (PoE)		

### Environment

Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67

# Structure

Casing	Metal
Product Dimensions	238.5 mm $\times$ 90.7 mm $\times$ 90.7 mm (9.39" $\times$ 3.57" $\times$ 3.57") (L $\times$ W $\times$ H)
Net Weight	820 g (1.81 lb)
Gross Weight	1090 g (2.40 lb)

Ordering Information			
Туре	Model	Description	
8MP Camera	DH-IPC-HFW3842T-ZAS	8MP IR Vari-focal Bullet WizSense Network Camera	
	PFA130-E	Water-proof Junction Box	
	PFA135	Junction Box	
Accessories	PFA152-E	Pole Mount Bracket	
(Optional)	PFM321D	12 VDC 1 A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

# Accessories

# Optional:







PFM321D 12 VDC 1 A Power Adapter



PFA135

Junction

Box

PFM900-E Integrated Mount Tester



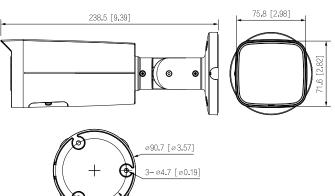
PFA152-E Pole Mount Bracket



TF-P100 MicroSD Memory Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

# Dimensions (mm[inch])



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