

# DH-IPC-HFW3866TP-ZAS-AUS

8MP IR Vari-focal Bullet WizSense Network Camera





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 1/2.8" 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 (Only ZAS supports); audio: 1 in, 1 out (Only ZAS supports); max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67, IK10 (optional) 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 reduced.

## 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  $\pm 30\%$  (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 @ (1–30 fps) Sub stream 2: 1920 × 1080 @ (1–25/30 fps)
Camera							Video Frame Rate	
Image Sensor		1/2.8" CMOS						*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Max. Resolution		3840 (H) × 2160 (V)					Stream Capability	to the total encoding capacity  3 streams
ROM		128 MB					Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 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 (640 × 480)
RAM		1 GB						
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumination		0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
S/N Ratio		>56 dB					Day/Night	Auto (ICR)/Color/B/W
Illumination	Distance	60 m (196.85 ft)					BLC	Yes
Illuminator C	On/Off Control	Auto/Manual					HLC	Yes
Illuminator N	lumber	4 (IR LED)					WDR	120 dB
Pan/Tilt/Rotation Range		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		Motorized vari-focal					Gain Control	Auto
Lens Mount		ф14					Noise Reduction	3D NR
Focal Length		2.7 mm-13.5 mm					Motion Detection	OFF/ON (4 areas, rectangular)
Max. Aperture		F1.5					Image Stabilization	Electronic Image Stabilization (EIS)
Field of View	1	Horizontal: 109°–30° Vertical: 56° –17°					Region of Interest (RoI)	Yes (4 areas)
Iris Control		Diagonal: 131° –35°  Fixed					Defog	Yes
Close Focus I	Distance	0.8 m (2.62 ft)					AFSA	Yes
Close Focus I	Lens	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	W	88.3 m	35.3 m	17.7 m	8.8 m		Mirror	Yes
Distance	**	(289.70 ft)	(115.81 ft)	(58.07 ft)	(28.87 ft)		Privacy Masking	4 areas
	Т	289.7 m (950.46 ft)	115.7 m (379.59 ft)	57.9m (189.96 ft)	29.0 m (95.14 ft)		Audio	
Intelligen	ce						Built-in MIC	Yes
IVS (Perimete	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		Yes					Alarm	
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events					Alarm Event	-ZAS:  No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; safety exception -ZS:  No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception
Smart 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 the sub stream)						
Smart Codec		Smart H.265+ Smart H.264+						
Al Coding		AI H.265 AI H.264						

	Network							
	Network Port	RJ-45 (10/100 Base-T)						
	SDK and API	Yes						
	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; SAMBA; 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						
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	Smart PSS; DSS; DMSS						
	Mobile Client	IOS; Android						
	Certification	Certification						
	Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14						
	Port							
	Audio Input	1 channel (RCA port) (Only- ZAS supports)						
	Audio Output	1 channel (RCA port) (Only- ZAS supports)						
	Alarm Input	1 channel in: 5 mA 3–5 VDC (Only- ZAS supports)						
	Alarm Output	1 channel out: 300 mA 12 VDC (Only- ZAS supports)						
	Power							
	Power Supply	12 VDC/PoE (802.3af)						
	Power Consumption	Basic: 4 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 9.2 W (12 VDC); 10.5 W (PoE)						
	Environment							
	Operating Temperature	$-30~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–22 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F})$ /Less than 95% RH						
	Storage Temperature	-40°C to +60°C (-40°F to 140°F)						
	Protection	IP67						
	Structure							
	Casing	Metal						
	Product Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 3.00") (L × W × H)						
	Net Weight	820 g (1.81 lb)						

1090 g (2.40 lb)

Gross Weight

Ordering Information						
Туре	Model	Description				
8MP Camera	DH-IPC-HFW3866TP-ZAS-AUS	8MP IR Vari-focal Bullet WizSense Network Camera				
olvir Calliera	DH-IPC-HFW3866TP-ZAS-AUS	8MP IR Vari-focal Bullet WizSense Network Camera				
	PFA130-E	Junction Box				
	PFA135	Junction Box				
Accessories	PFA152-E	Pole Mount				
(Optional)	PFM321D	12 VDC 1 A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	TLC SD Card				

## **Accessories**

## Optional:



Junction

Box

PFM321D

12 VDC 1 A Power Adapter





PFA135 Junction Box



PFM900-E Integrated Mount Tester



PFA152-E Pole Mount



TF-P100 TLC SD Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

# Dimensions (mm[inch])



