

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 Al 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 Al SSA (Al 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	on						M
Camera					Video Frame Rate	(1- Su		
Image Sensor		1/2.8" CMOS				*T		
Max. Resolution		3840 (H) × 2160 (V)				6. 6. 130	to	
ROM		128 MB					Stream Capability	3 :
RAM		1 GB						17 14
Scanning System		Progressive				Resolution	(1 (7	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				DU D	(6	
Min. Illumination		0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				Bit Rate Control Video Bit Rate	H.	
S/N Ratio		>56 dB				Day/Night	A	
Illumination Distance		60 m (196.85 ft)				BLC	Ye	
Illuminator On/Off Control		Auto/Manual				HLC	Ye	
Illuminator Number		4 (IR LED)				WDR	12	
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				Scene Self-adaptation (SSA)	Ye	
Lens						White Balance	A)	
Lens Type		Motorized vari-focal				Gain Control	A	
Lens Mount		ф14				Noise Reduction	31	
Focal Length		2.7 mm-13.5 mm				Motion Detection	0	
Max. Apertu	re	F1.5				Image Stabilization	El	
Field of View		Horizontal: 109°–30° Vertical: 56° –17° Diagonal: 131° –35°				Region of Interest (RoI)	Ye	
Iris Control		Fixed				Defog	Ye	
Close Focus I	Distance	0.8 m (2.62 ft)				AFSA	Ye	
	Lens	Detect	Observe	Recognize	Identify		Image Rotation	O'
DORI	W	88.3 m	35.3 m	17.7 m	8.8 m		Mirror	Ye
Distance	_	(289.70 ft) 289.7 m	(115.81 ft) 115.7 m	(58.07 ft) 57.9m	(28.87 ft) 29.0 m		Privacy Masking	4
	Т	(950.46 ft)	(379.59 ft)	(189.96 ft)	(95.14 ft)		Audio	
ntelligen	ce						Built-in MIC	Ye
IVS (Perimet	er Protection)	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)					Audio Compression	G
AI SSA		Yes					Alarm	
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events						-Z N w
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					d d cl	
Video							Alarm Event	d: -Z
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					N w di	
Smart Codec		Smart H.265+ Smart H.264+					de ch de	
Al Coding		AI H.265 AI H.264						

Video Frame Rate	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) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity			
Stream Capability	3 streams			
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)			
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			
Scene Self-adaptation (SSA)	Yes			
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom			
Gain Control	Auto			
Noise Reduction	3D NR			
Motion Detection	OFF/ON (4 areas, rectangular)			
Image Stabilization	Electronic Image Stabilization (EIS)			
Region of Interest (RoI)	Yes (4 areas)			
Defog	Yes			
AFSA	Yes			
Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)			
Mirror	Yes			
Privacy Masking	4 areas			
Audio				
Built-in MIC	Yes			
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723			
Alarm				
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			
	detection; SMD; safety exception			

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			
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 °C to +60 °C (−22 °F to 140 °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)		

1090 g (2.40 lb)

Ordering Information					
Туре	Model	Description			
8MP Camera	DH-IPC-HFW3866TP-ZAS-AUS	8MP IR Vari-focal Bullet WizSense Network Camera			
	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:



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)

Gross Weight

Dimensions (mm[inch])



