

DH-IPC-HDW3866TP-ZS-AUS

8MP IR Vari-focal Eyeball 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: 40 m.
- ROI, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage.
- Rotation mode, WDR, 3D NR, 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, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · 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 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 ±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)
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				on cam capazine,	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×	
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 (640 × 480)
Scanning Sys	stem	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	40 m (131.23 ft)					BLC	Yes
Illuminator (On/Off Control	Auto/Manual					HLC	Yes
Illuminator Number		2 (IR LED)					WDR	120 dB
Pan/Tilt/Rotation Range		Pan: 0°-360°; Tilt: 0°-78°; 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		Horizontal: 109°–30° Vertical: 56° –17° Diagonal: 131° –35°				Region of Interest (RoI)	Yes (4 areas)	
Iris Control		Fixed				Defog	Yes	
Close Focus	Distance	0.8 m (2.62 ft	t)				AFSA	Yes
	Lens	Detect	Observe	Recognize	Identify		Image Rotation	0°/90°/180°/270° (support 90°/270° with 2688 × 1520 resolution and lower)
DORI Distance	W	88.3 m (289.70 ft)	35.3 m (115.81 ft)	17.7 m (58.07 ft)	8.8 m (28.87 ft)		Mirror	Yes
	Т	289.7 m	115.7 m	57.9 m (189.96 ft)	29.0 m		Privacy Masking	4 areas
Intelligen	Ce	(950.46 ft) (379.59 ft) (189.96 ft) (95.14 ft)				Audio		
		Tripwire, intrusion (support the classification and					Built-in MIC	Yes
IVS (Perimet	er Protection)	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	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		H.265; H.264; H.264H; H.264B; MJPEG (only supported				Network		
Video Compression		by the sub stream)				Network Port	RJ-45 (10/100 Base-T)	
Smart Codec		Smart H.265+ Smart H.264+					SDK and API	Yes
Al Coding		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; SAMBA; PPPoE; SNMP	

Wiz Sense | DH-IPC-HDW3866TP-ZS-AUS

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	
ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
20 (Total bandwidth: 64 M)	
FTP; SFTP; Micro SD card (support max. 256 G); NAS	
IE: IE11 Chrome Firefox	
Smart PSS; DSS; DMSS	
IOS; Android	

Certification

	CE-LVD: EN62368-1;
	CE-EMC: Electromagnetic Compatibility Directive
Certifications	2014/30/EU;
	FCC: 47 CFR FCC Part 15, Subpart B;
	UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 5.7 W (12 VDC); 6.4 W (PoE) Max. (WDR + IR intensity + Intelligence): 8.9 W (12 VDC); 10.2 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	108.3 mm × Φ122 mm (4.26" × Φ4.8")
Net Weight	715 g (1.58 lb)
Gross Weight	915 g (2.02 lb)

Ordering Information				
Туре	Model	Description		
8MP Camera	DH-IPC-HDW3866TP-ZS-AUS	8MP IR Vari-focal Eyeball WizSense Network Camera		
	PFA137	Junction Box Bracket		
	PFA109	Mount Adapter		
	PFB220C	Ceiling Mount Bracket		
Accessories	PFB205W-E	Wall Mount		
(Optional)	PFA152-E	Pole Mount		
	PFM321D	12 VDC 1 A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	TLC SD Card		

Accessories

Optional:







PFA109 Mount Adapter



PFB220C Ceiling Mount Brack



PFM321D 12 VDC 1 A Power Adapter



PFB205W-E Wall Mount



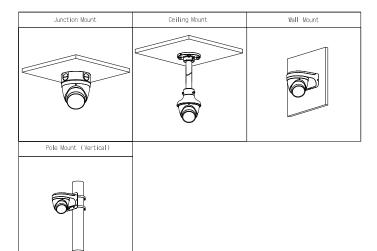
PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card



Dimensions (mm[inch])

