

DH-IPC-HDBW3866RP-ZAS-AUS

8MP IR Vari-focal Dome 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. 8MP (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 environments.
- 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.
- 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 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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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 @	
Camera							Video Frame Rate	(1–30 fps) Sub stream 2: 1920 × 1080 @ (1–25/30 fps)	
Image Sensor		1/2.8" CMOS					viaco i raine nate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity	
Max. Resolution		3840 (H) × 2160 (V)							
ROM		128 MB					Stream Capability	3 streams 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 System		Progressive							
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s							
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	CBR/VBR 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 (Illuminator On/Off Control		Auto/Manual				HLC	Yes	
Illuminator Number		3 (IR LED)					WDR	120 dB	
Pan/Tilt/Rotation Range		Pan: 0°–355°; Tilt: 0°–80°; Rotation: 0°–355°					Scene Self-adaptation		
Lens							(SSA)	Yes	
Lens Type		Motorized vari-focal					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Lens Mount		ф14					Gain Control	Auto	
Focal Length		2.7 mm-13.5 mm					Noise Reduction	3D NR	
Max. Aperture		F1.5					Motion Detection	OFF/ON (4 areas, rectangular)	
Field of View		Horizontal: 109°–30° Vertical: 56° –17°					Image Stabilization	Electronic Image Stabilization (EIS)	
3.2 3. 1.3.		Diagonal: 131° –35°					Region of Interest (RoI)	Yes (4 areas)	
Iris Control		Fixed					Defog	Yes	
Close Focus Distance		0.8 m (2.62 ft)					AFSA	Yes	
DORI	Lens W	Detect 88.3 m	Observe 35.3 m	Recognize 17.7 m	Identify 8.8 m		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)	
Distance	VV	(289.70 ft)	(115.81 ft)	(58.07 ft)	(28.87 ft)		Mirror	Yes	
	Т	289.7 m (950.46 ft)	115.7 m (379.60 ft)	57.9 m (189.96 ft)	29.0 m (95.14 ft)		Privacy Masking	4 areas	
Intelligence							Audio		
IVS (Perimeter Protection)		Tripwire, intrusion (support the classification and accurate detection of vehicle and human)					Built-in MIC	Yes	
AISSA		Yes					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events					Alarm -ZAS:		
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					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; 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	
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 Port	RJ-45 (10/100 Base-T)			
SDK and API	Yes			
Network Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTM 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 log 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; Milestor 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 VD 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; IK10			
Structure				
Casing	Metal			
Product Dimensions	94 mm × Φ122 mm (3.7" × Φ4.8")			
Net Weight	713 g (1.57 lb)			
Gross Weight	986 g (2.17lb)			

Ordering Information							
Туре	Model	Description					
8MP Camera	DH-IPC-HDBW3866RP-ZAS-AUS	8MP IR Vari-focal Dome WizSense Network Camera					
8IVIP Camera	DH-IPC-HDBW3866RP-ZAS-AUS	8MP IR Vari-focal Dome WizSense Network Camera					
	PFA137	Junction Box Bracket					
	PFA109	Mount Adapter					
	PFB220C	Ceiling Mount Bracket					
Accessories	PFB203W	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





PFM321D 12 VDC 1 A Power Adapter



PFB203W Wall Mount



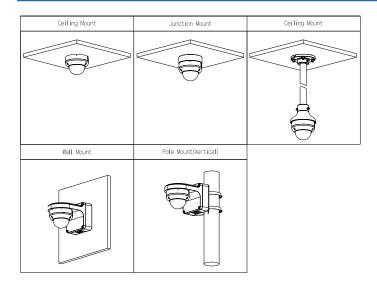
PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card



Dimensions (mm[inch])

