

DH-IPC-HDBW3867R-ZAS-IL-ANZ

8MP Smart Dual Light Vari-focal Dome 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

With advanced deep learning algorithm, Dahua WizSense 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

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.

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.

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.

Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

- \cdot 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 8 MP (3840 × 2160)@25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- \cdot Built-in multi-core light, the max. IR distance is 50 m and the max. warm light distance is 50 m.
- \cdot 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 monitoring: Intrusion, tripwire (the two function support the classification and accurate detection of vehicle and human).
- · Abnormality detection: Motion detection, video tampering, 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; supports max. 512 G Micro SD card; built-in Mic.
- · 12 VDC/PoE power supply.
- · IP67, IK10 protection.
- · SMD 4.0.
- · Supports AI SSA.
- · SMD area can be set in warm light areas that support triggering alarms.













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.

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.

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 work normally 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.

Video **Technical Specification** H.265; H.264; H.264H; H.264B; MJPEG (only supported Video Compression Camera by the sub stream) 1/2.7" CMOS **Image Sensor Smart Codec** Smart H.265+; Smart H.264+ 3840 (H) × 2160 (V) Max. Resolution Al Coding AI H.265; AI H.264 Main stream: $3840 \times 2160@(1 \text{ fps}-25/30 \text{ fps})$ **ROM** 256 MB Sub stream: $1920 \times 1080@(1 \text{ fps}-25/30 \text{ fps})$ RAM 1 GB Third stream: $1920 \times 1080@(1 \text{ fps}-25/30 \text{ fps})$ Video Frame Rate *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected Scanning System Progressive to the total encoding capacity. Auto/Manual 1/3 s-1/100,000 s **Electronic Shutter Speed** Stream Capability 3 streams 0.007 lux@F1.4 (Color, 30 IRE) 8M (3840 × 2160); 6M (3200 × 1800); 5M (3072 × 1728); 0.0007 lux@F1.4 (B/W, 30 IRE) Min. Illumination 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 0 lux (Illuminator on) Resolution 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × S/N Ratio >56 dB 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × Up to 50 m (164.04 ft) (IR) Illumination Distance Up to 50 m (164.04 ft) (Warm light) Bit Rate Control VBR;CBR;ABR Illuminator On/Off Control Auto; Manual H.264: 3 kbps-16384 kbps Video Bit Rate H.265: 3 kbps-16384 kbps Illuminator Number 4 (Multi-core (IR + warm) light) Auto (ICR)/Color/B/W Day/Night Pan: 0°-355°; Tilt: 0°-80°; Rotation: 0°-355° Angle Adjustment BLC Yes Lens HLC Yes Lens Type Motorized vari-focal WDR 120 dB Lens Mount ф14 Scene Self-adaptation (SSA) Focal Length 2.7 mm-13.5 mm Auto; natural; street lamp; outdoor; manual; regional White Balance Max. Aperture F1.4 custom Gain Control Auto Field of View H: 114°-32°; V: 58°-17°; D: 138°-36° Noise Reduction 3D NR Fixed Iris Control Motion Detection OFF/ON (4 areas, rectangular) Close Focus Distance 0.1 m (0.33 ft) Image Stabilization Flectronic Image Stabilization (FIS) Lens Detect Observe Recognize Identify Region of Interest (RoI) Yes (4 areas) 85.3 m 34.0 m 17.1 m 8.5 m W (279.86 ft) (111.55 ft) (56.10 ft) (27.89 ft) Smart Illumination Yes 28.0 m 112.0 m 280.0 m 56.0 m Т (367.45 ft) (183.73 ft) Smart Dual Light DORI (918.64 ft) (91.86 ft) Yes Distance *DORI (Detect, Observe, Recognize, Identify) is a standard system Defog Yes (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in **AFSA** this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/ $0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with 2688×1520 **Image Rotation** resoluton and lower) Intelligence Mirror Yes Tripwire, intrusion (support the classification and Privacy Masking IVS (Perimeter Protection) accurate detection of vehicle and human) Audio SMD 4.0 SMD Built-in Mic Yes, built-in Mid Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and AcuPick **Audio Compression** G.711a; G.711Mu; PCM; G.726; G.723 motor vehicles, and search through live and recorded videos to quickly locate targets Alarm Adopt deep learning algorithms to adjust the parameters AI SSA of the image to suit the conditions No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network Work together with Smart NVR to perform refine disconnection; IP conflict; illegal access; motion Smart Search intelligent search, event extraction and merging to event

Alarm Event

detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; safety exception

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; P2P	
Interoperability	ONVIF (Profile S & Profile G & Profile T & Profile M); CGI	
User/Host	20 (Total bandwidth: 64 M)	
Storage	FTP; SFTP; Micro SD card (support max. 512 G); NAS	
Browser	IE: IE11 Chrome Firefox	
Management Software	SmartPSS Lite; DSS; DMSS	
Mobile Client	IOS; Android	
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; Truste execution; Trusted upgrade	
Certification		
Certifications	CE-LVD: EN62368-1; 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)	
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.	
Power Consumption	Basic: 3.3 W (12 VDC); 4.0 W (POE) Max. (H.265 + WDR + warm light + intelligence on): 9.2 V (12 VDC); 11.3 W (POE)	
Environment		
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)	
Operating Humidity	≤95% (RH), non-condensing	

-40 °C to +60 °C (-40 °F to +140 °F)

94.0 mm × Φ122.0 mm (3.70" × Φ4.80")

≤95% (RH), non-condensing

IP67; IK10

Metal

560 g (1.23 lb)

740 g (1.63 lb)

Storage Temperature

Storage Humidity

Product Dimensions

Protection

Structure Casing

Net Weight

Gross Weight

Ordering Information		
Туре	Model	Description
8MP Camera	DH-IPC-HDBW3867R-ZAS-IL- ANZ	8MP Smart Dual Light Vari-focal Dome WizSense Network Camera
Accessories (Optional)	DH-PFA137	Junction Box Bracket
	DH-PFA109	Mount Adapter
	DH-PFB220C	Ceiling Mount Bracket
	DH-PFB5203C	In Ceiling Mount Bracket
	DH-PFB206W	Wall Mount
	DH-PFA156	Pole Mount
	DH-PFM321-EN	DC12V 1A power adapter
	DH-PFM321D-EN	DC12V 1A power adapter
	DH-PFM320D-EN	DC12V 2A power adapter
	PFM900-E	Integrated Mount Tester
	DHI-TF-P100/512GB	MicroSD Card

Accessories

Optional:







DH-PFA137 Junction Box Bracket

DH-PFA109 Mount Adapter

DH-PFB220C Corner Mount Bracket



DH-PFB5203C In Ceiling Mount Bracket





DH-PFB206W Wall Mount

DH-PFA156 Pole Mount



DH-PFM321-EN DC12V 1A power adapter







DH-PFM321D-EN
DC12V 1A power adapter DC

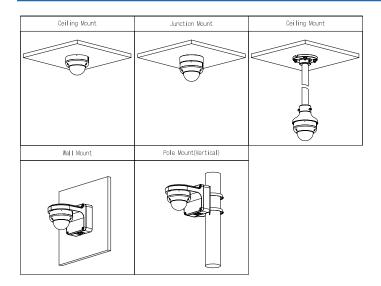
DH-PFM320D-EN DC12V 2A power adapter



PFM900-E Integrated Mount Tester



DHI-TF-P100/512GB MicroSD Card



Dimensions (mm[inch])

