

# DH-IPC-HDW3849H-AS-PV-ANZ-S2

8MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball 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**

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), Acupick, 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

#### Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

#### 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.

#### 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.

#### **One-tap Disarming**

Dahua One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

- 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.
- Built-in warm light and IR LED; the max. IR illumination distance is 30 m and warm light distance is 30 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 monitoring: Intrusion, tripwire (the two function 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; audio: 1 in, 1 out; supports max. 256 G Micro SD card; buit-in dual Mic; 1-ch speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- · Sound and light alarm (red and blue lights).
- SMD 4.0.
- · Supports AI SSA and one-tap arming and disarming.
- · SMD area can be set in warm light areas that support triggering alarms.



## 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 compromising the device.

#### 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 work normally 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.

## Wiz Sense | DH-IPC-HDW3849H-AS-PV-ANZ-S2

## **Technical Specification**

Camera					
Image Sensor		1/2.7" CMOS			
Max. Resolution		3840 (H) × 2160 (V)			
ROM		256 MB			
RAM		2 G			
Scanning System		Progressive			
Electronic Sh	utter Speed	Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)			
S/N Ratio		>56 dB			
Illumination Distance		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)			
Illuminator On/Off Control		Auto;Manual			
Illuminator Number		1 (IR LED); 1 (Warm light)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length	I	2.8 mm; 3.6 mm			
Max. Apertu	re	F1.0			
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85; V: 45°; D: 102°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)
	3.6 mm	78.0 m (255.91 ft)	22.2 m (102.36 ft)	15.6 m (51.18 ft)	7.8 m (25.59 ft)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or				

for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

#### Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)	
SMD	SMD 4.0	
AcuPick	Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.	
AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.	

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+				
AI Coding	AI H.265 (Compression rate ≥25%) AI H.264 (Compression rate ≥25%)				
Video Frame Rate	Main stream: 3840 × 2160 @(1 fps-25/30 fps) Sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 fps) Third stream: 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 × 1520/2560 × 1440); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				
Bit Rate Control	CBR/VBR/ABR				
Video Bit Rate	H.264: 3 kbps–16384 kbps; H.265: 3 kbps–16384 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)				
Region of Interest (RoI)	Yes (4 areas)				
Smart Illumination	Yes				
Defog	Yes				
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 $\times$ 1520 resolution and lower)				
Mirror	Yes				
Privacy Masking	4 areas				
LDC	Yes				
Audio					
Built-in MIC	Yes				
Built-in Speaker	Yes				
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723				

changing; audio detection; intensity change; voltage detection; external alarm; SMD; security exceptionNetwork PortRI-45 (10/100 Base-T)SDK and APIVesNetwork ProtocolSMTP; FP; SFTP; DHCP; DDS; DDNS; COS; UPAP; NTP Multicast; ICMP; IGMP; NFS; PPPOE; SMMP; P2PInteroperabilityONVIF (Profile S; Profile G;Profile T); CGIUser/Host20 (Total bandwidth: 64 M)StorageFTP; SFTP; Micro SD card (support max. 256 GB); NASBrowserCisi (Sindroid)Mobile ClientIOS;AndroidVideo encrypton;Firmware encrypton;Confguraton omerypton;Digest/WSSE/Account lockout;Security log MAC fitering;Generaton and importing of X.509 cer rtfcoton;Sysjog;HTTP;SB2.1x,Trusted boot;Trusted DotyTrusted upgradePortCE-LVD: EN 62368-1; CE-EVD: EN 62368-1; CE-EVD: Ele Compatibility Directive 2014/30/EUAudio Input1 channel (RCA port)Audio Output1 channel in: wet contact, 5 and 3-5 VDCAlarm Output1 channel out: wet contact, 300 mA 12 VDCPowerI2 VDC; PEPower Supply12 VDC; PEPower Supply12 VDC; PEPower ConsumptionBasic: 4.5 W (12 VDC); 5.8 W (POE) Max. (12 65+WDR warm light-siren and light active (POE)FurtionmentInternet - intelligence on; 8.6 W (12 VDC); 10.1 V Max. (12 65+WDR warm light-siren and light active (POE)		
Network PortRJ-45 (10/100 Base-T)SDK and APIYesNetwork ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RT SMTP; FTP; STPP; DHCP; DNS; DDNS; QDS; UDP; APP Multicast; ICMP; IGMP; NFS; PPPOE; SNMP; P2PInteroperabilityONVIF (Profile S; Profile G; Profile T); CGIUser/Host20 (Total bandwidth: 64 M)StorageFTP;SFTP; Micro SD card (support max. 256 GB); NASBrowserSmart PSS Lite; DSS; DMSSMobile ClientiOS;AndroidKyber SecurityVideo encrypton;Firmware encrypton;Confguraton encrypton;DipSige;WSSE;Account lockout;Security log; MAC fireing;Generation and importing of X.S09 en rtfacton;syslog;HTTP5;802.1x;Trusted boot;Trusted executon;Trusted upgradeCertificationsCE-IVO: EN 62368-1; CE-ENC: Electromagnetic Compatibility Directive 2014/30/EUPort1 channel (RCA port)Audio Output1 channel (RCA port)Alarm Output1 channel in: wet contact, 300 mA 12 VDCPowerPower SecurityPower ConsumptionBasic: 4.5 W (12 VDC); 5.8 W (POE) Max. (H.265+WDR+ warm light+siren and light active (POE)Power ConsumptionBasic: 4.5 W (12 VDC); 5.8 W (12 VDC); 10.1 W (POE)	Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; intensity change; voltage
SDK and API   Yes     Network Protocol   IPV4; IPV6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RT Multicast; ICMP; IGMP; NTS; DDNS; QoS; UPN6; NTP Multicast; ICMP; IGMP; NTS; PPPoE; SNMP; P2P     Interoperability   ONVIF (Profile S; Profile G;Profile T); CGI     User/Host   20 (Total bandwidth: 64 M)     Storage   FTP;SFTP; Micro SD card (support max. 256 GB); NAS     Browser   IE: IE 9/11 Chrome Firefox     Management Software   Smart PSS Lite; DSS; DMSS     Mobile Client   IOS;Android     Video encrypton;Firmware encrypton;Confguraton encrypton;Digest;WSSE;Account lockout;Security log: MAC fitering;Generaton and importing of X:S09 ce rtfcations;sylog;HTTP;S02.1x;Trusted box;Trusted executor;Trusted upgrade     Certification   CE-LVD: EN 62368-1; CE-EVC: Electromagnetic Compatibility Directive 2014/30/EU     Port   1 channel (RCA port)     Audio Input   1 channel (RCA port)     Alarm Output   1 channel in: wet contact, 5 mA 3–5 VDC     Alarm Output   1 channel in: wet contact, 300 mA 12 VDC     Power Supply   12 VDC; PoE     Power Consumption   Basic: 4.5 W (12 VDC); 5.8 W (PoE) Max. (H.255+WDR+ warm light+siren and light active deterrence + intelligence on); 8.6 W (12 VDC); 10.1 V (PoE)	Network	
InteroperabilityIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; NTP SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPNP; NTP Multicast; ICMP; IGMP; NFS; PPPOE; SNMP; P2PInteroperabilityONVIF (Profile S; Profile G; Profile T); CGIUser/Host20 (Total bandwidth: 64 M)StorageFTP;SFTP; Micro SD card (support max. 256 GB); NASBrowserIE: IE 9/11 Chrome FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSSMobile ClientiOS;AndroidCyber SecurityVideo encryton;Firmwsera encryton;Confguraton encryton;Diges;WSSE;Account lockout;Security log: MCC firering;Generaton and importing of X.SOQ excuton;Trusted upgradePortEt-LVD: EN 62368-1; CE-ENC: Electromagnetic Compatibility Directive 2014/30/EUAudio Input1 channel (RCA port)Alarm Input1 channel (RCA port)Alarm Output1 channel in: wet contact, 5 mA 3–5 VDCAlarm Output1 2 VDC; PoEPower Supply12 VDC; PoEPower ConsumptionBasic: 4.5 W (12 VDC); 5.8 W (PoE) MAX. (H.265+VDR+ warm light+siren and light active deterrence + intelligence on): 8.6 W (12 VDC); 10.1 W	Network Port	RJ-45 (10/100 Base-T)
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Browser   Chrome Firefox     Management Software   Smart PSS Lite; DSS; DMSS     Mobile Client   iOS;Android     Mobile Client   iOS;Android     Cyber Security   Video encrypton;Firmware encrypton;Confguraton encrypton;Digest;WSSE;Account lockout;Security log; MAC fitering;Generaton and importing of X.509 cc ertfcaton;syslog;HTTPS;802.1x;Trusted boot;Trusted executon;Trusted upgrade     Certification   CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU     Port   I channel (RCA port)     Audio Input   1 channel (RCA port)     Alarm Input   1 channel in: wet contact, 5 mA 3–5 VDC     Alarm Output   1 channel out: wet contact, 300 mA 12 VDC     Power   I2 VDC; POE     Power Consumption   Basic: 4.5 W (12 VDC); 5.8 W (POE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.6 W (12 VDC); 10.1 W (POE)	Storage	FTP;SFTP; Micro SD card (support max. 256 GB); NAS
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CertificationsCE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EUPortAudio Input1 channel (RCA port)Audio Output1 channel (RCA port)Alarm Input1 channel in: wet contact, 5 mA 3–5 VDCAlarm Output1 channel out: wet contact, 300 mA 12 VDCPower1 2 VDC; PoEPower Supply12 VDC; PoEPower ConsumptionBasic: 4.5 W (12 VDC); 5.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.6 W (12 VDC); 10.1 W (PoE)EnvironmentIntel Marce Active Active	Cyber Security	encrypton;Digest;WSSE;Account lockout;Security logs; MAC fltering;Generaton and importng of X.509 ce rtfcaton;syslog;HTTPS;802.1x;Trusted boot;Trusted
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Audio Output   1 channel (RCA port)     Alarm Input   1 channel in: wet contact, 5 mA 3–5 VDC     Alarm Output   1 channel out: wet contact, 300 mA 12 VDC     Power   1 channel out: wet contact, 300 mA 12 VDC     Power Supply   12 VDC; PoE     Power Consumption   Basic: 4.5 W (12 VDC); 5.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.6 W (12 VDC); 10.1 W (PoE)     Environment   1	Port	
Alarm Input   1 channel in: wet contact, 5 mA 3–5 VDC     Alarm Output   1 channel out: wet contact, 300 mA 12 VDC     Power   1 channel out: wet contact, 300 mA 12 VDC     Power Supply   12 VDC; PoE     Power Consumption   Basic: 4.5 W (12 VDC); 5.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.6 W (12 VDC); 10.1 W (PoE)     Environment	Audio Input	1 channel (RCA port)
Alarm Output   1 channel out: wet contact, 300 mA 12 VDC     Power   Power Supply     Power Consumption   12 VDC; PoE     Basic: 4.5 W (12 VDC); 5.8 W (PoE)     Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.6 W (12 VDC); 10.1 W (PoE)     Environment	Audio Output	1 channel (RCA port)
Power 12 VDC; PoE   Power Supply 12 VDC; PoE   Basic: 4.5 W (12 VDC); 5.8 W (PoE)   Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.6 W (12 VDC); 10.1 W (PoE)   Environment	Alarm Input	1 channel in: wet contact, 5 mA 3–5 VDC
Power Supply   12 VDC; PoE     Power Consumption   Basic: 4.5 W (12 VDC); 5.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.6 W (12 VDC); 10.1 W (PoE)     Environment	Alarm Output	1 channel out: wet contact, 300 mA 12 VDC
Power Consumption   Basic: 4.5 W (12 VDC); 5.8 W (PoE)     Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.6 W (12 VDC); 10.1 V (PoE)     Environment	Power	
Power Consumption   Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.6 W (12 VDC); 10.1 V (PoE)     Environment	Power Supply	12 VDC; PoE
	Power Consumption	Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.6 W (12 VDC); 10.1 W
	Environment	
Operating Temperature -40 °C to +60 °C (-40 °F to +140 °F)	Entrionnent	

Operating Humidity

Product Dimensions

Protection

Structure **Casing Material** 

Net Weight

Gross Weight

≤95%

IP67

Metal

0.75 kg (1.65 lb)

0.92 kg (2.03 lb)

Φ122.0 mm × 110.9 mm (4.80" × Φ4.37")

Ordering Information				
Туре	Model	Description		
8MP Camera	DH-IPC-HDW3849H-AS- PV-ANZ-S2	8MP Smart Dual Light Active Deterrence Fixed-focal Eyeball WizSense Network Camera		
	PFA137	Junction Box		
	PFB205W-E	Wall Mount Bracket		
	PFA109	Mount Adapter		
Accessories	PFB220C	Ceiling Mount Bracket		
(Optional)	PFA152-E	Pole Mount Bracket		
	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Teste		
	TF-P100	MicroSD Memory Card		

### Accessories

#### Optional:



PFA137

Junction Box





PFB205W-E Wall Mount Bracket

PFA109 Mount Adapter

PFA152-E



PFM321D 12 VDC 1A Power Adapter



PFB220C

Ceiling Mount Bracket

PFM900-E Integrated Mount Tester





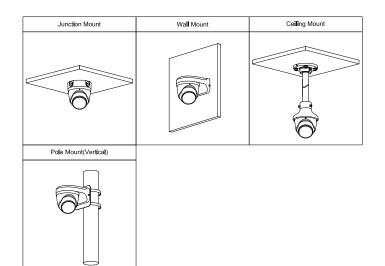
Mount Tester



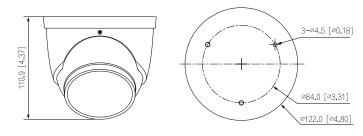
TF-P100 Integrated



## Wiz Sense | DH-IPC-HDW3849H-AS-PV-ANZ-S2



## Dimensions (mm[inch])



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