



## DH-IPC-HDW3849H-ZAS-PV

8MP Smart Dual Light Active Deterrence 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 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.

#### **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

# \*The parameters and datasheets below can only be applied to

- 8-MP 1/2.8" 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 50 m and warm light distance is 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 monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human), stay detection, loitering detection; face detection (full image).
- · 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. 512 G Micro SD card; built-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.













#### 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.

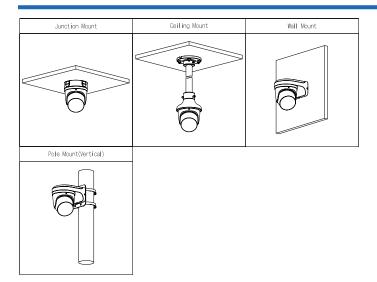
Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification							Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event	
Camera							videos		
Image Sensor		1/2.8" CMOS					Video		
Max. Resolution		3840 (H) × 2160 (V)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)	
ROM		256 MB						AI H.265; AI H.264 *Includes smart codec technology, Smart H.265+ and Smart H.264+	
RAM		2 GB					Al Coding		
Scanning System		Progressive						Main stream: 3840 × 2160@(1–25/30 fps) Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Frame Rate	(1–30 fps) Third stream: 1920 × 1080@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multple streams, the values will be subjected to the total encoding capacity.	
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					Stream Capability	3 streams	
Illumination Distance		Up to 50 m (164.64 ft) (IR) Up to 40 m (131.23 ft) (Warm light)					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)	
Illuminator On/Off Control		Auto;Manual							
Illuminator Number		2 (IR LED); 2 (Warm light)					Bit Rate Control	CBR/VBR/ABR	
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Video Bit Rate	H.264:3 kbps–16384 kbps H.265:3 kbps–16384 kbps	
Lens							Day/Night	Auto(ICR)/Color/B/W	
Lens Type		Motorized vari-focal					BLC	Yes	
Lens Mount		ф16					HLC	Yes	
Focal Length		2.7 mm–13.5 mm					WDR	120 dB	
Max. Aperture		F1.0					Scene Self-adaptation (SSA)	Yes	
Field of View		H: 108°-34° V: 56°-19° D: 130°-39°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Iris Control		Fixed					Gain Control	Auto;Auto/Manual	
Close Focus Distance		1.5 m (4.92 ft)					Noise Reduction	3D NR	
	Lens	Detect	Observe	Recognize	Identify		Motion Detection	OFF/ON (4 areas, rectangular)	
	W	89.9 m (294.95 ft)	36.0 m (118.11 ft)	18.0 m (59.06 ft)	9.0 m (29.53 ft)		Region of Interest (RoI)	Yes (4 areas)	
DORI	Т	257.4 m (844.49 ft)	103.0 m (337.93 ft)	51.5 m (168.96 ft)	25.7 m (84.32 ft)		Image Stabilization	Electronic Image Stabilization (EIS)	
Distance		DRI (Detect, Observe, Recognize, Identify) is a standard system					Smart Illumination	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 this table do not reflect intelligent function distances. For intelligent						Defog	Yes	
	function dista	this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)	
Intelligence						Mirror	Yes		
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					Privacy Masking	4 areas	
Face Detection (Full Image)		human), stay detection, loitering detection  Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization					Audio		
							Built-in MIC	Yes, built-in dual Mic	
SMD		snapshot); face angle filter; optimization time setting.					Built in Co. v. l	Yes, built-in speaker Max power consumption: 2 W; max sound level at 10	
SMD		SMD 4.0 Uses deep learning algorithms and works with back-end					Built-in Speaker	cm: 110 dB * Test results from laboratory	
AcuPick		devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.;(Some Models)					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	

Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.

AI SSA

Alarm		Ordering Information					
	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion	Туре	Model	Description			
Alarm Event	detection; video tampering; tripwire; intrusion; stay detection; loitering detection; face detection (full image); scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security	8MP Camera	DH-IPC-HDW3849H-ZAS-PV	8MP Smart Dual Light Active Deterrence Fixed-focal Eyeball WizSense Network Camera			
	exception		PFA137	Junction Box			
Network			PFB2203W	Wall Mount Bracket			
Network Port	RJ-45 (10/100 Base-T)		PFA109	Mount Adapter			
SDK and API	Yes		PFB220C	Ceiling Mount Bracket			
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; PPPoE; SNMP; P2P	Accessories (Optional)	PFA152-E	Pole Mount Bracket			
Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI		PFM321D	12 VDC 1A Power Adapter			
User/Host	20 (Total bandwidth: 64 M)		PFM900-E	Integrated Mount Teste			
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS		TF-P100	-			
Browser	IE: IE 9/11 Chrome		MicroSD Memory Card				
	Firefox	Accessorie	Accessories				
Management Software	SmartPSS Lite; DSS; DMSS						
Mobile Client	iOS;Android	Optional:					
Security	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						
Certification							
Certifications	CE-LVD: EN 62368-1; CE-EMC: Electromagnetc Compatbility Directve 2014/30/EU	PFA137 Junction E	1102200				
Port							
Audio Input	1 channel (RCA port)	7	And =	<b>6</b>			
Audio Output	1 channel (RCA port)						
Alarm Input	1 channel in: wet contact, 5 mA 3–5 VDC	PFB2200	PFA152-	E PFM321D			
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC	Ceiling Mount 8					
	Foliamiel Sat. Wet contact, 550 m/v 12 VDC						
Power							
Power Supply	12 VDC/PoE (802.3af)		() ===				
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): 10.3 W (12 VDC); 12.1 W (PoE)	2000	Sizes w	22			
Environment		PFM900-					
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	Integrated Mou	Mount Tes				
Operating Humidity	≤95% (RH), non-condensing						
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)						
Storage Humidity	≤95% (RH), non-condensing						
Protection	IP67						
Structure							
Casing Material	Metal						
Product Dimensions	127.6 mm × Φ122.0 mm (5.02" × Φ4.80")						
Net Weight	0.885 kg (1.95 lb)						
Gross Weight	1.060 kg (2.34 lb)						
G1033 WEIGHT	1.000 NB (2.07 ID)						



### Dimensions (mm[inch])

