

# DH-IPC-HDW3849H-AS-PV

## 8 MP 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**

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**

#### **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.

#### **Smart Dual Illuminators**

Dahua Smart Dual Illuminators technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the warm 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 warm light is off and the IR illuminator is on, which reduces light pollution efficiently.

#### 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.

- \* The parameters and datasheets below can only be applied to 3849-PV-S4 series.
- 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 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 MICs; 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.
- One press arming/disarming through alarm input.













#### **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.

#### 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  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical	l Specification	on					Video	
Camera							Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Image Sensor		1/2.8" CMOS					Smart Codec	Smart H.265+; Smart H.264+
Max. Resolution		3840 (H) × 2160 (V)					AI Coding	Al H.265; Al H.264
ROM		128 MB						Main stream: $3840 \times 2160@(1 \text{ fps}-30 \text{ fps})$ Sub stream: $704 \times 576@(1 \text{ fps}-25 \text{ fps})/704 \times 480@(1 \text{ fps}-30 \text{ fps})$ Third stream: $1920 \times 1080@(1 \text{ fps}-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
RAM		512 MB					Video Frame Rate	
Scanning System		Progressive					video rialle nate	
Electronic Shutter 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)					Stream Capability	3 streams 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520/2560 × 1440); 3M
S/N Ratio		> 56 dB					Resolution	(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)
Illumination	Distance	30 m (98.43 ft) (IR) 30 m (98.43 ft) (warm light)					Bit Rate Control	CBR/VBR
Illuminator On/Off Control		Auto; manual					Video Bit Rate	H.264: 32kbps-8192 kbps H.265:12kbps-8192 kbps
Illuminator N	Illuminator Number		1 (IR LED) 1 (warm light)				Day/Night	Auto (ICR)/Color/B/W
	Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				BLC	Yes
Pan/Tilt/Rot							HLC	Yes
Lens							WDR	120 dB
		Fixed-focal					Scene Self-adaptation	Yes
	Lens Type  Mount Type		M12				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Focal Length		2.8 mm; 3.6 mm					Gain Control	Auto; manual
Field of View		2.8 mm: H: 106°; V: 55°; D: 125°					Noise Reduction	3D NR
Iris Type		3.6 mm: H: 85°; V: 45°; D: 100° Fixed					Motion Detection	OFF/ON (4 areas)
Close Focus Distance		2.8 mm: 2.0 m (6.56 ft)					Region of Interest (RoI)	Yes (4 areas)
close rocus		3.6 mm: 2.8	, ,				Smart Illumination	Yes
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Defog	Yes
	2.8 mm	91.0 m (298.56 ft) 107.6 m	36.4 m ( 119.42 ft) 43.0 m	18.2 m (59.71 ft) 21.5 m	9.1 m (29.86 ft) 10.8 m		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)
	3.6 mm	(353.02 ft)	( 141.08 ft)	(70.54 ft)	(35.43 ft)		Mirror	Yes
Intelligent							Privacy Masking	8 areas
IVS (Perimeter Protection)		Tripwire; intrusion (Support the classification and accurate detection of vehicle and human)					Audio	
SMD 4.0		Less false alarm, longer detection distance					Built-in MIC	Yes
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
							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; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					Network	alarm; SMD; security exception
							Network	RJ-45 (10/100 Base-T)

SDK and API

Yes

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; trusted execution; trusted upgrade				
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				
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P; RTMP				
User/Host	20 (Total bandwidth: 72 M)				
Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS				
Browser	IE: IE8/9/11 Chrome Firefox				
Management Software	Smart PSS; DSS; DMSS				
Mobile Phone	iOS; Android				
Certification					
Certification	CE-LVD: EN 62368-1; 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)				
Audio Output	1 channel (RCA port)				
Alarm Input	1 channel in: 5 mA 3V–5 VDC				
Alarm Output	1 channel out: 300 mA 12 VDC				
Power					
Power Supply	12 VDC/PoE (802.3af)				
Power Consumption	Basic: 5.2 W (12 VDC); 5.5 W (PoE)  Max. (pulling stream+warning light+speaker+warm light on): 9.2W (DC12 V) 10.2 W (POE)				
Environment					
Operating Conditions	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$ )/Less than 95% RH				
Storage Conditions	-40 °C to +60 °C (-40 °F to +140 °F)				
Protection Grade	IP67				
Structure					
Casing	Metal				
Dimensions	110.9 mm × Φ122.0 mm (4.37" × Φ4.80")				
Net Weight	745 g (1.64 lb)				
Gross Weight	915 g (2.02 lb)				

Ordering Information						
Туре	Model	Description				
8MP	DH-IPC-HDW3849H-AS-PV	8 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera				
Camera	IPC-HDW3849H-AS-PV	8 MP Smart Dual Illumination 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 Tester				
	TF-P100	MicroSD Memory Card				

## **Accessories**

## Optional:







PFB205W-E Wall Mount Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter

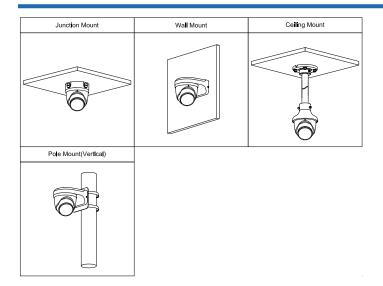


PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

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



## Dimensions (mm[inch])

