

# DH-IPC-HDW3549H-AS-PV

5MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense





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.

- \* The parameters and datasheets below can only be applied to 3549-PV-S5 series.
- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 ×1668) @20 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.

Technical Specification							Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event	
Camera							videos		
Image Sensor		1/2.7" CMOS					Video		
Max. Resolution		2960 (H) × 1688 (V)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	
ROM		256 MB					Smart Codec	Smart H.265+; Smart H.264+	
RAM		1 G					Al Coding	AI H.265 (Compression rate ≥25%) AI H.264 (Compression rate ≥25%)	
Scanning System		Progressive						Main stream: 2880 × 1620/2960 × 1668@(1 fps-20 fps)/2688 × 1520 @(1 fps-30 fps) Sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 fps)	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s							
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Video Frame Rate	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.	
S/N Ratio		>56 dB					Stream Capability	3 streams	
Illumination Distance		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)						5M (2880 × 1620/2960 × 1668); 4M (2688 × 1520/2560 ×	
Illuminator On/Off Control		Auto;Manual					Resolution	1440); 3M (2304×1296/2048 × 1536); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 ×	
Illuminator N	iumber	1 (IR LED); 1 (Warm light) Pan: 0°-360°					Bit Rate Control	480); CIF (352 × 288/352 × 240) CBR/VBR/ABR	
Angle Adjust	Angle Adjustment		360°				Video Bit Rate	H.264: 3 kbps–16384 kbps;	
Lens							Day/Night	H.265: 3 kbps–16384 kbps Auto(ICR)/Color/B/W	
Lens Type		Fixed-focal					BLC	Yes	
Lens Mount		M12					HLC	Yes	
Focal Length		2.8 mm; 3.6 mm					WDR	120 dB	
Max. Aperture		F1.0					Scene Self-adaptation	120 UB	
Field of View		2.8 mm: H: 97°; V: 70°; D: 128° 3.6 mm: H: 78°; V: 58°; D: 102°					(SSA)	Yes	
Iris Control		Fixed					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)					Gain Control	Auto	
	Lens	Detect	Observe	Recognize	Identify		Noise Reduction	3D NR	
		66.0 m	26.4 m	13.2 m	6.6 m		Motion Detection	OFF/ON (4 areas, rectangular)	
	2.8 mm	(216.54 ft)	(86.61 ft)	(43.31 ft)	(21.65 ft)		Region of Interest (RoI)	Yes (4 areas)	
DORI Distance	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)		Smart Illumination	Yes	
	*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 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.						Defog	Yes	
							Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)	
Intelligence							Mirror	Yes	
		Intrusion, tripwire (the two functions support the					Privacy Masking	4 areas	
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					LDC	Yes	
SMD		SMD 4.0					Audio		
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.					Built-in MIC	Yes	
							Built-in Speaker	Yes	
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723	

Alarm				
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; intensity change; voltage detection; external alarm; SMD; security exception			
Network				
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; 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			
Cyber Security	Video encrypton;Firmware encrypton;Confguraton encrypton;Digest;WSSE;Account lockout;Security logs;II MAC fitering;Generaton and importing of X.509 ce rtfcaton;syslog;HTTPS;802.1x;Trusted boot;Trusted executon;Trusted upgrade			
Certification				
Certifications	CE-LVD: EN 62368-1; 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 3–5 VDC			
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC			
Power				
Power Supply	12 VDC; PoE			
Power Consumption	Basic: 3.7 W (12 VDC); 4.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.3 W (12 VDC); 8.8 W (PoE)			
Environment				
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Operating Humidity	≤95%			
Protection	IP67			
Structure				
Casing Material	Metal			
Product Dimensions	Φ122.0 mm × 110.9 mm (4.80" × Φ4.37")			
Net Weight	0.75 kg (1.65 lb)			
Gross Weight	0.92 kg (2.03 lb)			

Ordering Information							
Туре	Model	Description					
5MP Camera	DH-IPC-HDW3549H-AS-PV	5MP 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







PFB220C Ceiling Mount Bracket

PFA152-E Pole Mount Bracket

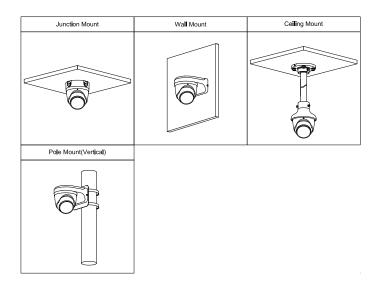
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 Integrated Mount Tester



# Dimensions (mm[inch])

