

# DH-IPC-HDW3549H-AS-PV

5 MP Smart Dual Light 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 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 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 3549-PV-S4 series.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 × 1668) @20 fps and supports 4 MP (2688 × 1520)@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; built-in dual Mic; built-in speaker; 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-tap 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 Specification**

#### Camera

Image Sensor		1/2.7" CMOS			
Max. Resolution		2960 (H) × 1668 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
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)			
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			
Mount Type		M12			
Focal Length		2.8 mm; 3.6 mm			
Field of View		2.8 mm: H: 97°; V: 70°; D: 128° 3.6 mm: H: 78°; V: 58°; D: 102°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	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)	31.2 m ( 102.36 ft)	15.6 m (51.18 ft)	7.8 m (25.59 ft)
Intelligent	t				

IVS (Perimeter Protection)	Tripwire; intrusion (Support the classification and accurate detection of vehicle and human)
SMD 4.0	Less false alarm, longer detection distance
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events

AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.	
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; AI H.264	
Video Frame Rate	$\label{eq:main_stream: 2880 \times 1620/2960 \times 1668@(1 fps-20 fps)/2688 \times 1520 @(1 fps-30 fps) \\ Sub stream: 704 \times 576@(1 fps-25 fps)/704 \times 480@(1 fps-30 fps) \\ Third stream: 1920 \times 1080@(1 fps-25/30 fps) \\ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. \\ \end{tabular}$	
Stream Capability	3 streams	
Resolution	5M (2880 × 1620/2960 × 1668); 4M (2688 × 1520/2560 × 1440); 3M 2304×1296/2048 × 1536); 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	
Video Bit Rate	H.264: 32kbps-8192 kbps H.265:12kbps-8192 kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
Scene Self-adaptation	Yes	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto; manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas)	
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	8 areas	
Audio		
Built-in MIC	Yes, built-in dual Mic	
Built-in speaker	Yes, built-in speaker	
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; voltage detection; external alarm; SMD; security exception	

## Wiz Sense | DH-IPC-HDW3549H-AS-PV

#### Network

Gross Weight

Network	
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; P2P
Interoperability	ONVIF (Profile S;Profile G;Profile T); CGI
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: 3.7 W (12 VDC); 4.8 W (PoE) Max. (pulling stream+warning light+speaker+warm light on): 8.3 W (DC12 V) 8.8 W (POE)
Environment	
Operating Conditions	–40 °C to +60 °C (–40 °F to +140 °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 $\sigma$ (2.02 lb)

915 g (2.02 lb)

#### **Ordering Information** Туре Model Description 5 MP Smart Dual Light Active DH-IPC-HDW3549H-AS-PV Deterrence Fixed-focal Eyeball WizSense Network Camera 5MP Camera 5 MP Smart Dual Light Active IPC-HDW3549H-AS-PV Deterrence Fixed-focal Eyeball WizSense Network Camera PFA137 Junction Box PFB205W-E Wall Mount Bracket PFA109 Mount Adapter PFB220C Ceiling Mount Bracket Accessories (Optional) PFA152-E Pole Mount Bracket

Integrated Mount Tester
MicroSD Memory Card

12 VDC 1A Power Adapter

#### Accessories

PFM321D

PFM900-E

TF-P100

#### Optional:



PFA137

Junction Box

PFB220C

Ceiling

Mount Bracket

PFM900-E Integrated

Mount Tester



PFB205W-E

Wall Mount

Bracket



PFA109 Mount Adapter





PFA152-E Pole Mount Bracket

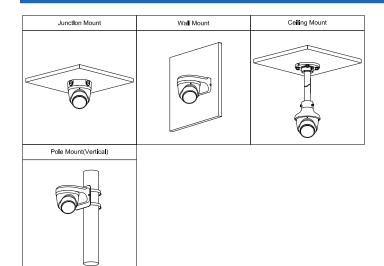


TF-P100 MicroSD Memory Card



#### PFM321D 12 VDC 1A Power Adapter

# Wiz Sense | DH-IPC-HDW3549H-AS-PV



### Dimensions (mm[inch])

