

# DH-IPC-HDW3549H-AS-PV

5MP Full-color 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. In addition, with full-color technology, it provides a better image effect in the condition of low illuminance.

#### **Functions**

#### **SMD** Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

#### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

#### Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultralow illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

#### Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports 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.

- 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 × 1944) @20 fps, and supports 4MP (2688 × 1520) @25/30 fps
- H.265 codec, high compression rate, low bit rate
- Built-in warm illuminator, and the max. illumination distance: 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Supports sound and light alarm linkage. When an alarm is triggered, the camera links sound alarm and light flashing.
- Supports one-tap disarming. You can disarm the events of alarm output, sending email, audio, and light in the configured period.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic and spearker
- 12V DC/PoE power supply
- IP67 protection
- SMD Plus
- Red and blue flashlight alarm



#### **Perimeter Protection**

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

#### 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 works normal 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.



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

# **Technical Specification**

Camera					
Image Sensor		1/2.7"5Megapixel progressive CMOS			
Max. Resolution		2592 (H) × 1944 (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			
S/N Ratio		>56 dB			
Illumination Distance		30 m (98.4 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		1 (Warm light)			
Pan/Tilt/Rotation Range		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			
Max. Aperture		F1.0			
Field of View		2.8 mm: Horizontal 103° × Vertical 53° × Diagonal 122° 3.6 mm: Horizontal 81° × Vertical 43° × Diagonal 95°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 1.2 m (3.9 ft) 3.6 mm: 2.1 m (6.9 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	67.4 m (221.1 ft)	27 m (88.6 ft)	13.5 m (44.3 ft)	6.7 m (22.0 ft)
	3.6 mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)
Professional, intelligent					
IVS (Perimeter Protection)		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)			

	accurate detection of vehicle and human)			
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.			
Video				
Video Compression	$\rm H.265; H.264; H.264H; H.264B; MJPEG$ (only supported by the sub stream)			
Smart Codec	Smart H.265+/Smart H.264+			
Video Frame Rate	Main stream: 2592 × 1944 @1-20 fps 2688 × 1520 @1-25/30 fps Sub stream: 704 × 576 @1-25 fps/704 × 480 @ 1-20fps Third stream: 1920 × 1080 @1-25/30 fps			
Stream Capability	3 streams			
Resolution	5M (2592 × 1944); 4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (354 × 288/354 × 240)			

Bit Rate Control	CBR/VBR			
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps			
Day/Night	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 DNR			
Motion Detection	OFF/ON (4 areas)			
Region of Interest (Rol)	Yes (4 areas)			
Smart Illumination	Yes			
Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support with 1080p resolution and lower)			
Mirror	Yes			
Privacy Masking	4 areas			
Audio				
Built-in MIC	Yes			
Audio Compression	PCM; G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729; 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; safety exception; light alarm; sound alarm (11 built-in sounds and custom voices importing)			
Network				
Network	RJ-45 (10/100 Base-T)			
SDK and API	Yes			
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP			
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P			
User/Host	20 (Total bandwidth: 80 M)			
Storage	FTP; SFTP; Micro SD card (support max. 256 G); Dahua Colud; NAS			
Browser	IE: IE8 and later Chrome Firefox Safari: Safari 12 and later			
Management Software	Smart PSS; DSS; DMSS			
Mobile Phone	IOS; Android			
Certification				
Certification	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B			

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

Port				
Audio Input	1 channel (RCA port)			
Audio Output	1 channel (RCA port)			
Alarm Input	1 channel in: 5mA 3V–5V DC			
Alarm Output	1 channel out: 300mA 12V DC			
Power				
Power Supply	12V DC/PoE (802.3af)			
Power Consumption	Basic power consumption: 2.5W (12V DC); 3.0W (PoE) Max. power consumption (WDR + H.265 + red and blue lights flashing alternately + warm light + sound alarm): 7.3W (12V DC); 8.0W (PoE)			
Environment				
Operating Conditions	–40°C to +60°C (–40°F to +140°F)/Less than 95% RH			
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)			
Protection Grade	IP67			
Structure				
Casing	Metal			
Dimensions	Φ122.0 mm × 110.9 mm (Φ4.8" × 4.4")			
Net Weight	754 g (1.7 lb)			
Gross Weight	915 g (2.0 lb)			

# Accessories

# Optional



PFA152-E

Pole Mount

Junction Box



Wall Mount

PFM321D

12V DC/1A Power

Adapter

PFB220C Celling Mount



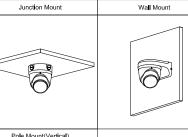
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender

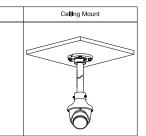


PFM900-E Integrated Mount Tester

PFM114 TLC SD Card

128

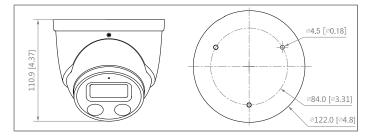




Pole Mount(Vertical)



# Dimensions (mm[inch])



### **Ordering Information**

Туре	Model	Description	
5MP Camera	DH-IPC-HDW3549HP-AS-PV	5MP Full-color Active Deterrence Fixed-focal Eyeball WizSense Network Camera, PAL	
	DH-IPC-HDW3549HN-AS-PV	5MP Full-color Active Deterrence Fixed-focal Eyeball WizSense Network Camera, NTSC	
	IPC-HDW3549HP-AS-PV	5MP Full-color Active Deterrence Fixed-focal Eyeball WizSense Network Camera, PAL	
	IPC-HDW3549HN-AS-PV	5MP Full-color Active Deterrence Fixed-focal Eyeball WizSense Network Camera, NTSC	
Accessories (Optional)	PFA137	Junction Box	
	PFB205W	Wall Mount	
	PFB220C	Ceiling Mount	
	PFA152-E	Pole Mount	
	PFM321D	12V DC 1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender	
	PFM900-E	Integrated Mount Tester	
	PFM114	TLC SD Card	

Rev 001.001  $\bigcirc$  2020 Dahua. All rights reserved. Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.