



# DH-IPC-HDW3649H-ZAS-PV-ANZ-S2

6MP Smart Dual Illumination Active Deterrence Vari-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**

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

- 6-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 6 MP (3072 × 2048) @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 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. 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).
- · 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						Video	
Camera						Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)
Image Sensor		1/2.7" CMOS				Smart Codec	Smart H.265+; Smart H.264+
Max. Resolution		3072 (H) × 2048 (V)				Al Coding	AI H.265; AI H.264
ROM		256 MB					Main stream: $3072 \times 2048@(1-25/30 \text{ fps})$ Sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ Third stream: $1920 \times 1080@(1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multple streams, the values will be subjected to the total encoding capacity.
RAM		2 GB					
Scanning System		Progressive				Video Frame Rate	
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)				Stream Capability	3 streams
S/N Ratio		>56 dB				Decelotics	6M (3072 × 2048); 5M (2592 × 1944); 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)
Illumination Distance		Up to 50 m (164.64 ft) (IR) Up to 40 m (131.23 ft) (Warm light)				Resolution	
Illuminator On/Off Control		Auto;Manual				Bit Rate Control	CBR/VBR/ABR
Illuminator Number		2 (IR LED); 2 (Warm light)				Video Bit Rate	H.264:3 kbps-16384 kbps H.265:3 kbps-16384 kbps
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Day/Night	Auto(ICR)/Color/B/W
Lens		Notation, 9 –500				BLC	Yes
Lens Type		Motorized vari-focal				HLC	Yes
Lens Mount		ф16				WDR	120 dB
Focal Length		2.7 mm-13.5 mm				Scene Self-adaptation (SSA)	Yes
Max. Aperture		F1.0				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Field of View		H: 104°-33° V: 75°-26° D: 128°-42°				Gain Control	Auto/Manual
Iris Control		Fixed				Noise Reduction	3D NR
Close Focus Distance		1.5 m (4.92 ft)				Motion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect	Observe	Recognize	Identify	Region of Interest (RoI)	Yes (4 areas)
	W	65.2 m (213.91 ft)	26.1 m (85.63 ft)	13.0 m (42.65 ft)	6.5 m (21.33 ft)	Image Stabilization	Electronic Image Stabilization (EIS)
	T	186.6 m	74.6 m	37.3 m	18.7 m	Smart Illumination	Yes
DORI Distance	T *DOPL/Datas:	(612.20 ft)	(244.75 ft)	(122.38 ft)	(61.35 ft)	Defog	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.					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688 \times 1520$ resolution and lower)
						Mirror	Yes
Intelligence					Privacy Masking	4 areas	
_		Intrusion, tripwire (the two functions support the				Audio	
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)				Built-in MIC	Yes, built-in dual Mic
SMD		SMD 4.0				Built-in Speaker	Yes, built-in speaker
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.				Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
						Alarm	
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.  Work together with Smart NVR to perform refine				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;defocus detection; external alarm; SMD; security exception
Smart Search		intelligent search, event extraction and merging to event videos					

Network		
Network Port	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTI 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. 512 GB); NAS	
Browser	IE: IE 9/11 Chrome Firefox	
Management Software	SmartPSS Lite; DSS; DMSS	
Mobile Client	iOS;Android	
Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs 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	
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 (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 V (PoE)	
Environment		
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	
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)	

Ordering Information							
Туре	Model	Description					
6MP Camera	DH-IPC-HDW3649H-ZAS- PV-ANZ-S2	6MP 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 Ceiling Mount Bracket



PFB220C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



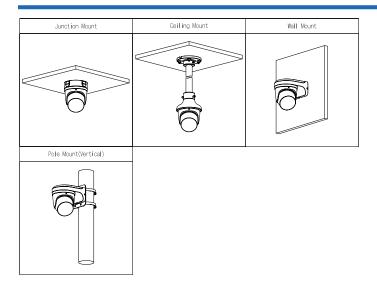
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 Ceiling Mount Bracket



## Dimensions (mm[inch])

