

DH-IPC-HDBW3849R1-ZAS-PV

8MP Smart Dual Light Active Deterrence Vari-focal Dome 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. • 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 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. 256 G Micro SD card; built-in dual Mic; built-in speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67, IK10 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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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.

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Technical Specification Camera 1/2.8" CMOS Image Sensor Max. Resolution 3840 (H) × 2160 (V) ROM 128 MB RAM 1 GB Scanning System Progressive Auto/Manual 1/3 s-1/100,000 s Electronic Shutter Speed 0.003 lux@F1.0 (Color, 30 IRE) Min. Illumination 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on) >56 dB S/N Ratio Up to 50 m (164.04 ft) (IR) Up to 40 m (131.23 ft) (warm light) Illumination Distance Illuminator On/Off Control Auto/Manual 2 (IR LED) Illuminator Number 2 (warm light) Pan: 0°-360° Tilt: 0°–90° Angle Adjustment Rotation: 0°-360° Lens Motorized vari-focal Lens Type Mount Type φ16 2.7 mm-13.5 mm Focal Length Max. Aperture F1.0 Horizontal: 108°-34° Vertical: 56°-19° Field of View Diagonal: 130°–39° Iris Type Fixed Close Focus Distance 1.5 m (4.92 ft) Observe Identify Lens Recognize Detect 36.0 m 18.0 m 89.9 m 9.0m DORI W (59.06 ft) (294.95 ft) (118.11 ft) (29.53 ft) Distance 103.0 m 257.4 m 51.5 m 25.7 m Т (844.49 ft) (337.93 ft) (168.96 ft) (84.32 ft)

Professional, intelligent

IVS (Perimeter Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)	
SMD 4.0	Less false alarm, longer detection distance	
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
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	Main stream: 3840 × 2160@(1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) Third stream:1920 × 1080@(1 fps-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	
Stream Capability	3 streams	
Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (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)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-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)	
Image Stabilization	Electronic Image Stabilization (EIS)	
Smart Illumination	Yes	
Defog	Yes	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	
Mirror	Yes	
Privacy Masking	4 areas	
Alarm		
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; defocus detection; external alarm; SMD; security exception	
Network		
Network	RJ-45 (10/100 Base-T)	
SDK and API	Yes	

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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	SmartPSS Lite; 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	12V DC/PoE (802.3af)	
Power Consumption	Basic: 4.4 W (12 VDC); 5.8 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 7.9 W (12 VDC); 10.1 W (PoE)	
Environment		
Operating Conditions	$-30\ ^\circ\text{C}$ to +60 $^\circ\text{C}$ (–22 $^\circ\text{F}$ to +140 $^\circ\text{F})/Less than 95% RH$	
Storage Conditions	-40 °C to +60 °C (-40 °F to +140 °F)	
Protection Grade	IP67, IK10	
Structure		
Casing	Metal	
Dimensions	105 mm × Φ126.0 mm (4.13" × Φ4.96")	
Net Weight	0.73 kg (1.61 lb)	
Gross Weight	0.9 kg (1.98 lb)	

Ordering Information			
Туре	Model	Description	
8MP Camera	DH-IPC-HDBW3849R1- ZAS-PV	8MP Smart Dual Light Active Deterrence Vari-focal Dome WizSense Network Camera	
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Accessories (Optional) PFA PFA PFA PFA	PFA197R	Junction Box	
	PFB206W	Wall Mount	
	PFA156	Pole Mount	
	PFA109	Ceiling Mount Bracket	
	PFB220C	Ceiling Mount Bracket	
	PFM321D	12 VDC 1A Power Adapter	
	РҒМ900-Е	Integrated Mount Tester	
	TF-P100	TLC SD Card	

Accessories

Optional:



PFA197R

Junction Box



PFB206W

Wall Mount



PFA156 Pole Mount



PFA109 Ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter



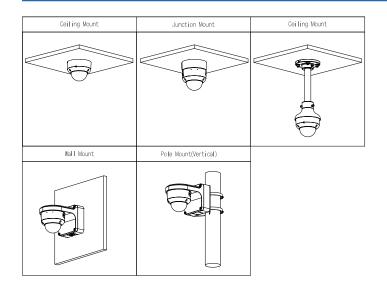
PFM900-E Integrated Mount Tester

Z56ce ⊎42 PEY30 → TF-P100 TLC SD Card

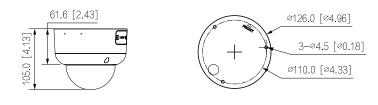
alhua

PFB220C

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Dimensions (mm[inch])



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