

DH-IPC-HFW2449DG-4G-ZAS-PV-PRO-EAU

4MP WizColor Active Deterrence Vari-focal Bullet WizSense 4G Network Camera



WizSense

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 2 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

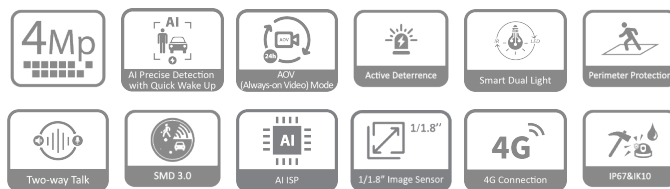
AOV (Always-On Video) Mode

AOV (Always-On Video) technology offers a low power consumption solution that enables 24/7 video recording. Equipped with advanced AI algorithms, the camera can be woken up to perform detection even at long distances. During inactive periods, it records at a low frame rate and seamlessly escalates to a high frame rate when an event is detected, ensuring smooth and continuous video recordings.

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.

- 4-MP 1/1.8" CMOS image sensor, low illuminance, and high definition image.
- Outputs max 4 MP (2560 × 1440)@30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max IR distance is 55 m and the max warm light distance is 50 m.
- Supports motion detection, human detection, and vehicle detection.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Sound and light active deterrence can be linked when an alarm is triggered.
- With a built-in high-performance 4G module, installation is no longer limited to wired networks.
- In AOV mode, the camera wakes up when a person or vehicle appears, and it works 24/7 while in its energy saving state.
- Max 512 GB Micro SD card; built-in Mic and speaker; two-way talk.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; 1 × RS-485 (for external solar panel connection only; reports device solar battery information, such as power and battery level).
- 12 VDC power supply.
- Wind resistance 12 level, up to 40 m/s wind speed resistance.
- Heater (Window Heating): Quickly removes water, ice, snow, and mist from the window to keep images clear.
- IP67 and IK10 protection.
- SMD3.0



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.

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.

Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

Technical Specification

Camera

Image Sensor	1/1.8" CMOS
Max. Resolution	2560 (H) × 1440 (V)
Illumination Distance	Up to 55 m (180.45 ft) (IR) Up to 50 m (164.04 ft) (Warm light)
Illuminator Number	4 (Multi-core (IR + warm) light)
Angle Adjustment	Pan: 0° to 360°; Tilt: 0° to 70°
Lens Type	Motorized vari-focal
Focal Length	2.7 mm–12 mm
Max. Aperture	F1.2
Field of View	H: 107°–46°; V: 56°–26°; D: 130°–53°

Intelligence

Human Detection	Yes
Vehicle Detection	Yes

Audio and Video

Video Compression	H.265
Video Frame Rate	Main stream: 2560 × 1440@(1–30 fps)
Video Bit Rate	H.265: 32 kbps–4096 kbps
Day/Night	Yes (Switchable between colorful channel and B/W channel)
WDR	Yes
Motion Detection	OFF/ON (4 areas, rectangular)
Built-in MIC	Yes, built-in dual Mic
Built-in Speaker	Yes, built-in speaker
Audio Compression	AAC

Network

Network Port	RJ-45 (10/100 Base-T)
Carrier Network System	FDD-LTE: B1/B3/B5/B7/B8/B20/B28 TDD-LTE: B38/B40/B41 4G: Power class 3: 23 dBm ± 2.7 dB

Carrier Network System	Applicable regions: Europe
Storage	Micro SD card (max 512 GB)
Management Software	DSS
Mobile Client	iOS;Android

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: supports wet contact connection (max load 5 mA 3–5 VDC); supports dry contact connection
Alarm Output	1 channel out: wet contact, max load 300 mA 12 VDC

General

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; CE-RED: Radio Equipment Directive 2014/53/EU
Power Supply	12 VDC (±30%)
Power Consumption	Performance Mode (720p@15 fps; 4G streaming): 2 W AOV Mode (720p@1 fps; 24/7 recording): 0.32 W Standby Mode (no recording): 0.12 W
Operating Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
Operating Humidity	≤95% (RH), non-condensing
Protection	IP67; IK10
Anti-corrosion Level	Basic Protection *The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion protection.
Camera Button	Reset Button
Casing Material	Metal + plastic
Product Dimensions	128.47 mm × 300.88 mm × 222.76 mm (5.06" × 11.85" × 8.77") (L × W × H)
Net Weight	2 kg (4.41 lb)

Ordering Information

Type	Model	Description
IP CAMERA	DH-IPC-HFW2449DG-4G-ZAS-PV-PRO-EAU	4MP WizColor Active Deterrence Vari-focal Bullet WizSense 4G Network Camera
	DH-PFM320D-EN	DC12V2A power adapter
Accessories (Optional)	PFM900-E	Integrated Mount Tester
	DHI-TF-P100/512GB	MicroSD Card
	DH-PFE221-LS1220CP-M60	Integrated Solar System(with battery)

Accessories

Optional:



DH-PFM320D-EN
DC12V2A power adapter



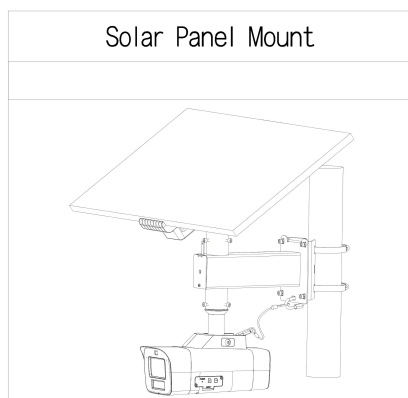
PFM900-E
Integrated Mount Tester



DHI-TF-P100/512GB
MicroSD Card



DH-PFE221-LS1220CP-
M60
Integrated Solar
System(with battery)



Dimensions (mm[inch])

