

# DH-IPC-HFW2449T-ZAS-IL

4MP Smart Dual Light Vari-focal Bullet 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 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

#### 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.

#### 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.

#### **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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@20 fps, and supports 2560 ×1440 (2560 × 1440)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 60 m and the max. warm light distance is 60 m.
- ROI, SMART 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 functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, 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 Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 (optional) protection.
- SMD Plus.



#### 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 Fullcolor technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

#### 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% (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**

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Camera					
Image Sensor		1/2.9" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.006 lux@F1.5 (Color, 30 IRE) 0.0006 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		Up to 60 m (196.85 ft) (IR) Up to 60 m (196.85 ft) (Warm light)			
Illuminator On/Off Control		Auto;Manual			
Illuminator Number		4 (Multi-core (IR + warm) light)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Lens Mount		φ14			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.5			
Field of View		H: 97°–28°; V: 52°–16°; D: 117°–32°			
Iris Control		Fixed			
Close Focus Distance		0.8 m (2.62 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	64.0 m ( 209.97 ft)	25.6 m ( 83.99 ft)	12.8 m ( 41.99 ft)	6.4 m ( 20.99 ft)
	т	210.0 m ( 688.97 ft)	84.0 m ( 275.59 ft)	42.0 m ( 137.79 ft)	21.0 m ( 68.90 ft)
	*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

and commissioning manual/project design tool.

human)

SMD Plus

event videos

Intelligence

SMD

Smart Search

IVS (Perimeter Protection)

distances. For intelligent function distances, refer to installation

Intrusion, tripwire (the two functions support the

Work together with Smart NVR to perform refine

intelligent search, event extraction and merging to

classification and accurate detection of vehicle and

1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × Resolution 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Bit Rate Control VBR:CBR H.264: 32 kbps-6144 kbps; Video Bit Rate H.265: 12 kbps-6144 kbps Day/Night Auto(ICR)/Color/B/W BLC Yes HLC Yes WDR 120 dB Auto; natural; street lamp; outdoor; manual; regional White Balance custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Smart Dual Light Yes 0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 Image Rotation resolution and lower) Mirror Yes Privacy Masking 4 areas Audio Built-in MIC Yes, built-in Mic Audio Compression G.711a; G.711Mu; G.726; PCM Alarm No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; Alarm Event motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception Network Network Port RJ-45 (10/100 Base-T) IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; Network Protocol RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P

ONVIF (Profile S & Profile T & Profile G); CGI

H.265; H.264; H.264H; H.264B; MJPEG (Only supported

Main stream: 2688 × 1520@(1-20 fps )/2560 × 1440@

sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30

4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296);

\*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.

by the sub stream)

(1-25/30 fps)

2 streams

fps)

Smart H.265+; Smart H.264+

Interoperability

Video

Video Compression

Video Frame Rate

Streaming Capability

Smart Codec

## Wiz Sense | DH-IPC-HFW2449T-ZAS-IL

User/Host	6 (Total bandwidth: 36 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 GB)		
Browser	IE Chrome Firefox		
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care		
Mobile Client	iOS;Android		
Security	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		
Certification			
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 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: 2.6 W (12 VDC), 3.1 W (PoE); Max.: 10.2 W (12 VDC), 12.7 W (PoE) (H.265 + intelligence on+ WDR + warm light intensity)		
Environment			
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)		
Operating Humidity	≤95% (RH), non-condensing		
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)		
Storage Humidity	≤95% (RH), non-condensing		
Protection	IP67; IK10 (optional)		
Structure			
Casing Material	Metal		
Product Dimensions	238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57") (L × W × H)		
Net Weight	0.76 kg (1.68 lb)		
Gross Weight	0.95 kg (2.09 lb)		

#### **Ordering Information** Туре Model Description 4MP Smart Dual Light Vari-focal Bullet WizSense IP CAMERA DH-IPC-HFW2449T-ZAS-IL Network Camera DH-PFA151 Corner Mount Bracket G3416GW G3/4" Water Joint DH-PFA130-E Water-proof Junction Box DH-PFA152-E Pole Mount Bracket DH-PFA135 Junction Box Accessories (Optional) DH-PFM321-EN DC12V1A power adapter DH-PFM320D-EN DC12V2A power adapter

PFM900-E

DHI-TF-W100-256GB DHI-TF-P100/256GB

### Accessories

#### Optional:



DH-PFA130-E

Water-proof Junction Box



DH-PFA135

Junction Box



Integrated Mount Tester

MicroSD Card

MicroSD Card

DH-PFA151 Corner Mount Bracket



DH-PFA152-E Pole Mount Bracket



DHI-TF-W100-256GB

MicroSD Card

DH-PFM321-EN DC12V1A power adapter



DHI-TF-P100/256GB MicroSD Card



PFM900-E Integrated Mount Tester



G3416GW G3/4" Water Joint







#### Dimensions (mm[inch])



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