

# DH-IPC-HFW2849TL-S-PRO

8MP WizColor Fixed-focal Bullet WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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**

### WizColor Technology

Dahua WizColor Technology seamlessly combines with the powerful AI-ISP, large pixel size sensor and large aperture in cameras. This unique integration enables cameras to effortlessly capture high-quality images with vibrant colors during nighttime scenarios, ensuring fine details are preserved and minimizing motion blur. Unlike traditional self-illuminating cameras, Dahua WizColor Technology maximizes the utilization of weak light sources, such as moonlight and city lights reflected in the sky, delivering captivating full-color images of the entire scene. It also ensures that monitoring distances are not compromised at night due to limited illumination ranges, facilitating full-color image capture even over long distances.

#### 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.

## 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.

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160)@20 fps, and supports 4 MP (2688 × 1520)@25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in warm light, and the max. illumination distance is 50 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.
- · Supports max. 256 G Micro SD card; built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- SMD Plus















#### **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.

#### 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.

## 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.

Camera         Image Sensor       1/1.8" CMOS         Max. Resolution       3840 (H) × 2160 (V)         ROM       128 MB         RAM       256 MB	Smart Search intelligent search, event extraction and merging to event videos  Video  Video Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supply the sub stream)  Smart Codec Smart H.265+; Smart H.264+	0
Max. Resolution 3840 (H) × 2160 (V)  ROM 128 MB	Video Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supply by the sub stream)	
ROM 128 MB	Video Compression by the sub stream)	
	Smart Codec Smart H.265+; Smart H.264+	ported
RAM 256 MB		
	Main stream: 3840 × 2160@(1–20 fps)/2688 ×	
Scanning System Progressive	1520@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1	1–30
Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s	Video Frame Rate fps)	
Min. Illumination 0.0008 lux@F1.0	*The values above are the max. frame rates of each stream; for multiple streams, the values will	be
S/N Ratio >56 dB	subjected to the total encoding capacity.	
Illumination Distance Up to 50 m (164.04 ft) (Warm light)	Streaming Capability 2 streams	
Illuminator On/Off Control Auto; Manual Illuminator Number 4 (Warm light)	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 2048); 5M (3072 × 1728/2880 × 1620); 4M (2688 × 1520); 3M (2048 Resolution 1536/2304 × 1296); 1080p (1280 × 720); 10 (704 × 576/704 × 4	3 × [1280
Pan: 0° – 360° Angle Adjustment Tilt: 0° – 90°	VGA (640 × 480); CIF (352 × 288/352 × 240)	
Rotation: 0°–360°	Bit Rate Control VBR;CBR	
Lens Type Fixed-focal	Video Bit Rate H.264: 32 kbps—8192 kbps; H.265: 12 kbps—8192 kbps	
	Day/Night Color/B/W	
Lens Mount M16	BLC Yes	
Focal Length 2.8 mm; 3.6 mm; 6 mm	HLC Yes	
Max. Aperture F1.0	WDR 120 dB	
2.8 mm: H: 110°; V: 59°; D: 131° Field of View 3.6 mm: H: 93°; V: 49°; D: 110° 6 mm: H: 57°; V: 30°; D: 66°	White Balance Auto; natural; street lamp; outdoor; manual; region custom	onal
Iris Control Fixed	Gain Control Auto/Manual	
2.8 mm: 2.8 m (9.19 ft)	Noise Reduction 3D NR	
Close Focus Distance 3.6 mm: 4 m (13.12 ft) 6 mm: 12 m (39.37 ft)	Motion Detection OFF/ON (4 areas, rectangular)	
Lens Detect Observe Recognize Identi	Region of Interest (RoI) Yes (4 areas)	
2.8 mm 84.0 m 33.6 m 16.8 m 8.4 r	Smart Illumination Yes	
(275.59 ft) (110.24 ft) (55.12 ft) (27.56 3.6 mm	Image Rotation 0°/90°/180°/270° (Support 90°/270° with 2688 × resolution and lower)	1520
(334.65 ft) (133.86 ft) (66.93 ft) (33.46	Mirror Yes	
DORI 169.0 m 67.6 m 33.8 m 16.9 Distance (554.46 ft) (221.78 ft) (110.89 ft) (55.45	Privacy Masking 4 areas	
*DORI (Detect, Observe, Recognize, Identify) is a standard syste	LDC Yes	
(EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area.	Audio	
The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation	Built-in MIC Yes, built-in Mic	
and commissioning manual/project design tool.	Audio Compression G.711a; G.711Mu; PCM; G.726	
Intelligence	Alarm	
Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; at detection; voltage detection; SMD; security exceptions	
SMD Plus	Network	
	Network Port RJ-45 (10/100 Base-T)	

SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; P2P; Bonjour; Auto Registration
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI
User/Host	20 (Total bandwidth: 48 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Browser	IE; Chrome; Firefox
Management Software	Smart PSS Lite; DSS; DMSS
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;Session security;Security warning
Certification	
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Power	
Power Supply	12 VDC (±30%); PoE (802.3af)
Power Consumption	Basic: 2.3 W (12 VDC); 3.2 W (PoE) Max.: 6.1 W (12 VDC); 7.4 W (PoE) (H.265+ intelligence on + WDR + illuminator intensity)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °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	197.9 mm × 80.2 mm × 76.2 mm (7.79" × 3.16" × 3.00") (L × W × H)
Net Weight	0.57 kg (1.26 lb)

Ordering Information			
Туре	Model	Description	
IP CAMERA	DH-IPC-HFW2849TL-S-PRO	8MP WizColor Fixed-focal Bullet WizSense Network Camera	
Accessories (Optional)	DH-PFA130-E	Water-proof Junction Box	
	DH-PFA151	Corner Mount Bracket	
	G3416GW	G3/4" Water Joint	
	DH-PFA157	Pole Mount Bracket	

0.72 kg (1.59 lb)

Gross Weight

Туре	Model	Description
	DH-PFA134	Junction Box
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester
	DHI-TF-W100-256GB	MicroSD Card
	DHI-TF-P100/256GB	MicroSD Card

## Accessories

## Optional:







DH-PFA130-E Water-proof Junction Box

DH-PFA134 Junction Box

DH-PFA151 Corner Mount Bracket







DH-PFA157 Pole Mount Bracket

DH-PFM320D-EN DC12V2A power adapter

DH-PFM321-EN DC12V1A power adapter







DHI-TF-P100/256GB MicroSD Card

DHI-TF-W100-256GB MicroSD Card

G3416GW G3/4" Water Joint



PFM900-E Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

# Dimensions (mm[inch])

