



DH-IPC-HFW3849T-ZS-IL-Black

8MP 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 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

AI SSA

Dahua AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

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.

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) are largely reduced.

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.

- · 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- · Outputs max. 8 MP (3840 ×2160)@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+, 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, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Supports max. 512 G Micro SD card; built-in Mic.
- · 12 VDC/PoE power supply.
- · IP67 protection.
- · SMD 4.0.
- · Supports AI SSA.
- · SMD area can be set in warm light areas that support triggering alarms.













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.

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 comprising 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 works normal 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.

Video **Technical Specification** H.265; H.264; H.264H; H.264B; MJPEG (only supported Video Compression Camera by the sub stream) 1/2.7" CMOS **Image Sensor Smart Codec** Smart H.265+; Smart H.264+ 3840 (H) × 2160 (V) Max. Resolution Al Coding AI H.265; AI H.264 **ROM** 256 MB Main stream: 3840 × 2160@(1 fps-25/30 fps) Sub stream: $1920 \times 1080@(1 \text{ fps}-25/30 \text{ fps})$ RAM 1 GB Third stream: $1920 \times 1080@(1 \text{ fps}-25/30 \text{ fps})$ Video Frame Rate *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected Scanning System Progressive to the total encoding capacity. Auto/Manual 1/3 s-1/100,000 s **Electronic Shutter Speed** Stream Capability 3 streams 0.007 lux@F1.4 (Color, 30 IRE) 0.0007 lux@F1.4 (B/W, 30 IRE) Min. Illumination 8M (3840 × 2160); 6M (3200 × 1800); 5M (3072 × 1728); 0 lux (Illuminator on) 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); Resolution 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × S/N Ratio >56 dB 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Up to 60 m (196.85 ft) (IR) Illumination Distance Up to 60 m (196.85 ft) (Warm light) Bit Rate Control VBR;CBR;ABR Illuminator On/Off Control Auto; Manual H.264: 3 kbps-16384 kbps Video Bit Rate H.265: 3 kbps-16384 kbps Illuminator Number 4 (Multi-core (IR + warm) light) Day/Night Auto (ICR)/Color/B/W Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360° Angle Adjustment BLC Yes Lens HLC Yes Lens Type Motorized vari-focal WDR 120 dB Lens Mount ф14 Scene Self-adaptation Yes (SSA) Focal Length 2.7 mm-13.5 mm Auto; natural; street lamp; outdoor; manual; regional White Balance Max. Aperture F1.4 custom Field of View H: 114°-32°; V: 58°-17°; D: 138°-36° Gain Control Auto 3D NR Fixed Noise Reduction Iris Control Close Focus Distance 0.1 m (0.33 ft) **Motion Detection** OFF/ON (4 areas, rectangular) Image Stabilization Electronic Image Stabilization (EIS) Lens Detect Observe Recognize Identify Region of Interest (RoI) 85.3 m 34.0 m 17.1 m 8.5 m Yes (4 areas) W (279.86 ft) (111.55 ft) (56.10 ft) (27.89 ft) Smart Illumination Yes 28.0 m 112.0 m 280.0 m 56.0 m Т (367.45 ft) (183.73 ft) DORI (918.64 ft) (91.86 ft) Smart Dual Light Yes Distance *DORI (Detect, Observe, Recognize, Identify) is a standard system Defog Yes (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 AFSA Yes this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/ $0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with 2688×1520 **Image Rotation** resolution and lower) Intelligence Mirror Yes Tripwire, intrusion (support the classification and IVS (Perimeter Protection) Privacy Masking accurate detection of vehicle and human) Audio SMD 4.0 SMD Built-in Mic Yes, built-in Mic Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and AcuPick motor vehicles, and search through live and recorded **Audio Compression** G.711a; G.711Mu; PCM; G.726; G.723 videos to quickly locate targets Alarm Adopt deep learning algorithms to adjust the parameters AI SSA of the image to suit the conditions No SD card; SD card full; SD card error; service life

Alarm Event

warning (only supported by Dahua card); network

detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus

disconnection; IP conflict; illegal access; motion

detection; SMD; safety exception

Work together with Smart NVR to perform refine

intelligent search, event extraction and merging to event

Smart Search

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; SAMBA; PPPoE; SNMP; P2P
Interoperability	ONVIF (Profile S & Profile G & Profile T & Profile M); CGI
User/Host	20 (Total bandwidth: 64 M)
Storage	FTP; SFTP; Micro SD card (support max. 512 G); NAS
Browser	IE: IE11 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; 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
Power	
Power Supply	12 VDC/PoE (802.3af)
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.
Power Consumption	Basic: 3.8 W (12 VDC); 5.3 W (PoE) Max. :9.9 W (12 VDC); 12.5 W (PoE) (H.265 + WDR + warm light + intelligence on)
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	Metal
Product Dimensions	238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57") (L × W × H)
Net Weight	835 g (1.84 lb)

1090 g (2.40 lb)

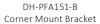
Gross Weight

Ordering Information		
Туре	Model	Description
8MP Camera	DH-IPC-HFW3849T-ZS-IL- Black	8MP Smart Dual Light Vari-focal Bullet WizSense Network Camera
Accessories (Optional)	DH-PFA151-B	Corner Mount Bracket
	G3416B	G3/4" Water Joint
	DH-PFA130-E-B	Water-proof Junction Box
	DH-PFA152-E-B	Pole Mount Bracket
	DH-PFA135-B	Junction Box
	DH-PFM321-EN	DC12V 1A power adapter
	DH-PFM321D-EN	DC12V 1A power adapter
	DH-PFM320D-EN	DC12V 2A power adapter
	PFM900-E	Integrated Mount Tester
	DHI-TF-P100/512GB	MicroSD Card

Accessories

Optional:







G3416B G3/4" Water Joint



DH-PFA130-E-B Water-proof Junction Box



DH-PFA152-E-B Pole Mount Bracket



DH-PFA135-B Junction Box



DH-PFM321-EN DC12V 1A power adapter



DH-PFM321D-EN DC12V 1A power adapter



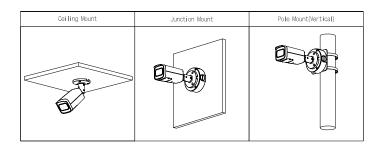
DH-PFM320D-EN DC12V 2A power adapter



PFM900-E Integrated Mount Tester



DHI-TF-P100/512GB MicroSD Card



Dimensions (mm[inch])

