



DH-IPC-HFW3449T-ZS-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 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.

- · 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition
- · Outputs max. 4 MP (2688 ×1520)@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.

	Specification	OH .			
Camera					
Image Sensor		1/2.9" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		256 MB			
RAM		1 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (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		ф14			
Focal Length		2.7 mm-13.5 mm			
Max. Apertui	re	F1.4			
Field of View		H: 104°-29°; V: 54°-16°; D: 125°-34°			
Iris Control		Fixed			
Close Focus D	Distance	0.1 m (0.33 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	64.0 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)
	Т	210.0 m (688.98 ft)	84.0 m (275.59 ft)	42.0 m (137.80 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 distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.				
Intelligend	ce				
IVS (Perimeter Protection)		Tripwire, intrusion (support the classification and accurate detection of vehicle and human)			

IVS (Perimeter Protection)	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)	
SMD	SMD 4.0	
AcuPick	Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.	
AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions	
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	

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+	
Al Coding	AI H.265; AI H.264	
Video Frame Rate	Main stream: 2688 × 1520@(1 fps-25/30 fps) Sub stream: 1920 × 1080@(1 fps-25/30 fps) Third stream: 1920 × 1080@(1 fps-25/30 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	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Bit Rate Control	VBR;CBR;ABR	
Video Bit Rate	H.264: 3 kbps–16384 kbps H.265: 3 kbps–16384 kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
Scene Self-adaptation (SSA)	Yes	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Image Stabilization	Electronic Image Stabilization (EIS)	
Region of Interest (RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Smart Dual Light	Yes	
Defog	Yes	
AFSA	Yes	
Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (support $90^\circ/270^\circ$ with 2688 \times 1520 resolution and lower)	
Mirror	Yes	
Privacy Masking	8 areas	
Audio		
Built-in Mic	Yes, built-in Mic	
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
Alarm		
Alarm Event	No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception	

Network Port	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMF 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 log: IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Truste 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: 3.2 W (12 VDC); 4.8 W (PoE) Max. :9.3 W (12 VDC); 11.9 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	

Metal

 $(L \times W \times H)$

835 g (1.84 lb)

1090 g (2.40 lb)

238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57")

Casing

Net Weight

Gross Weight

Product Dimensions

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HFW3449T-ZS-IL	4MP Smart Dual Light Vari-focal Bullet WizSense Network Camera		
Accessories (Optional)	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		
	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:







DH-PFA151 Corner Mount Bracket

G3416GW G3/4" Water Joint

DH-PFA130-E Water-proof Junction Box



DH-PFA152-E Pole Mount Bracket







DH-PFM321-EN DC12V 1A power adapter



DH-PFM321D-EN DC12V 1A power adapter



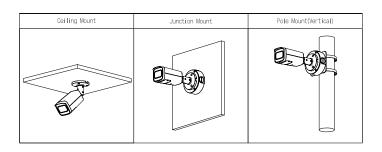
DH-PFM320D-EN DC12V 2A power adapter



PFM900-E Integrated Mount Tester



DHI-TF-P100/512GB MicroSD Card



Dimensions (mm[inch])

