



DH-IPC-HFW3449T-ZS-IL-Black

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.

rechnical	Specification	ווט					Video	
Camera						Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supply the sub stream)	
Image Sensor		1/2.9" CMOS					Smart Codec	Smart H.265+; Smart H.264+
Max. Resolution		2688 (H) × 1520 (V)					Al Coding	AI H.265; AI H.264
ROM		256 MB					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 eastream; for multiple streams, the values will be su to the total encoding capacity.
RAM		1 GB						
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Stream Capability	3 streams
Min. Illumination		0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W,30 IRE) 0 lux (Illuminator on)				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/ 240)	
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					Bit Rate Control	VBR;CBR;ABR
Illuminator Number		4 (Multi-core (IR + warm) light)					Video Bit Rate	H.264: 3 kbps–16384 kbps H.265: 3 kbps–16384 kbps
Angle Adjustment		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°					Day/Night	Auto (ICR)/Color/B/W
Lens		· · · · · · · · · · · · · · · · · · ·				BLC	Yes	
		Motorized vari-focal					HLC	Yes
Lens Type							WDR	120 dB
Lens Mount		ф14 2.7 mm-13.5 mm					Scene Self-adaptation (SSA)	Yes
Focal Length Max. Aperture		F1.4					White Balance	Auto; natural; street lamp; outdoor; manual; reg custom
Field of View		H: 104°-29°; V: 54°-16°; D: 125°-34°					Gain Control	Auto
Iris Control		Fixed					Noise Reduction	3D NR
Close Focus Distance		0.1 m (0.33 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Image Stabilization	Electronic Image Stabilization (EIS)
	W	64.0 m	25.6 m (83.99 ft)	12.8 m	6.4 m		Region of Interest (RoI)	Yes (4 areas)
	_	(209.97 ft) 210.0 m	(83.99 It) 84.0 m	(41.99 ft) 42.0 m	(21.00 ft) 21.0 m		Smart Illumination	Yes
	Т	(688.98 ft)	(275.59 ft)	(137.80 ft)	(68.90 ft)		Smart Dual Light	Yes
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to						Defog	Yes
	this table do r	guish persons or objects within a covered area. The numbers in able do not reflect intelligent function distances. For intelligent					AFSA	Yes
	function distances, refer to installation and commissioning manual/project design tool.						Image Rotation	0°/90°/180°/270° (support 90°/270° with 2688 × resolution and lower)
Intelligence						Mirror	Yes	
IVS (Perimet	er Protection)	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)					Privacy Masking	8 areas
SMD		SMD 4.0					Audio	
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.					Built-in Mic	Yes, built-in Mic
							Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
AISSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions					Alarm	
		Work together with Smart NVR to perform refine						No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network

intelligent search, event extraction and merging to event

Smart Search

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

Network					
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 logs 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)				

≤95% (RH), non-condensing

≤95% (RH), non-condensing

IP67

Metal

 $(L \times W \times H)$

835 g (1.84 lb)

1090 g (2.40 lb)

-40 °C to +60 °C (-40 °F to +140 °F)

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

Operating Humidity

Storage Temperature

Storage Humidity

Product Dimensions

Protection

Structure

Net Weight

Gross Weight

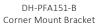
Casing

Ordering Information								
Туре	Model	Description						
4MP Camera	DH-IPC-HFW3449T-ZS-IL- Black	4MP Smart Dual Light Vari-focal Bullet WizSense Network Camera						
	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						
Accessories	DH-PFA135-B	Junction Box						
(Optional)	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

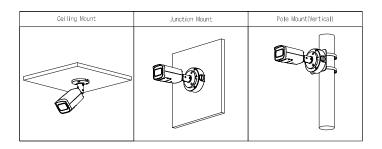


PFM900-E Integrated Mount Tester



DHI-TF-P100/512GB MicroSD Card





Dimensions (mm[inch])

