

DH-IPC-HFW2449TL-S-PRO

4MP 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.

- 4-MP 1/1.8" 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 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.

Technical Specification								Work together with Smart NVR to perform refine
Camera							Smart Search	intelligent search, event extraction and merging to event videos
Image Sensor		1/1.8" CMOS					Video	
Max. Resolution		2688 (H) × 1520 (V)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
ROM		128 MB					Smart Codec	Smart H.265+; Smart H.264+
RAM		256 MB						Main stream: 2688 × 1520@(1–20 fps)/2560 ×
Scanning System		Progressive					Video Frame Rate	1440@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						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.
Min. Illumination		0.0005 lux@F1.0						
S/N Ratio		>56 dB						
Illumination Distance		Up to 50 m (164.04 ft) (Warm light)					Streaming Capability	2 streams
Illuminator On/Off Control Illuminator Number		Auto;Manual 4 (Warm light)					Resolution	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
		Pan: 0°–360°						(352 × 288/352 × 240)
Angle Adjustr	ment	Tilt: 0°-90°					Bit Rate Control	VBR;CBR
Lens		Rotation: 0°–360°					Video Bit Rate	H.264: 32 kbps-6144 kbps; H.265: 12 kbps-6144 kbps
Lens Type		Fixed-focal					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
Field of View		2.8 mm: H: 112°; V: 60°; D: 134° 3.6 mm: H: 94°; V: 50°; D: 113°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
		6 mm: H: 58°; V: 31°; D: 67°					Gain Control	Auto/Manual
Iris Control		Fixed					Noise Reduction	3D NR
Close Focus Distance		2.8 mm: 2 m (6.56 ft) 3.6 mm: 3 m (9.84 ft) 6 mm: 6 m (19.69 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
							Region of Interest (RoI)	Yes (4 areas)
	Lens	Detect	Observe	Recognize	Identify		Smart Illumination	Yes
	2.8 mm	57.9 m (189.96 ft)	23.2 m (76.12 ft)	11.6 m (38.06 ft)	5.8 m (19.03 ft)		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
	3.6 mm	70.3 m (230.64 ft)	28.1 m (92.19 ft)	14.1 m (46.26 ft)	7.0 m (22.97 ft)		Mirror	Yes
DORI		116.6 m	46.6 m	23.3 m	11.7 m		Privacy Masking	4 areas
Distance	6 mm	(382.55 ft)	(152.89 ft)	(76.44 ft)	(38.39 ft)		LDC	Yes
	*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						Audio	
							Built-in MIC	Yes, built-in Mic
							Audio Compression	G.711a; G.711Mu; PCM; G.726
		ioning manual/project design tool.					Alarm	
Intelligend		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human);					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
SMD		SMD Plus					Network	
·· ·							Network Port	RJ-45 (10/100 Base-T)

SDK and API

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; PoE				
Power Consumption	Basic: 2.0 W (12 VDC); 3.0 W (PoE); Max.: 5.6 W (12 VDC); 7.2 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	$197.9 \text{ mm} \times 80.2 \text{ mm} \times 76.2 \text{ mm} (7.79" \times 3.16" \times 3.00")$ $(L \times W \times H)$				
Product Dimensions Net Weight					

Ordering Information								
Туре	Model	Description						
IP CAMERA	DH-IPC-HFW2449TL-S-PRO	4MP WizColor Fixed-focal Bullet WizSense Network Camera						
	DH-PFA151	Corner Mount Bracket						
	G3416GW	G3/4" Water Joint						
	DH-PFA130-E	Water-proof Junction Box						
	DH-PFA157	Pole Mount Bracket						
Accessories (Optional)	DH-PFA134	Junction Box						
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	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-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



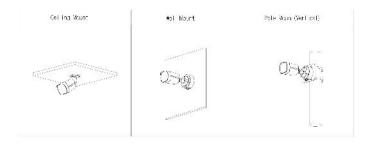
DHI-TF-W100-256GB MicroSD Card



G3416GW G3/4" Water Joint



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

