

DH-IPC-HFW2849T-ZAS-IL

8MP Smart Dual Light Vari-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

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.

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.

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.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160)@20 fps, and supports 2688 × 1520 (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+, 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.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built in Mic.
- · 12 VDC/PoE power supply, easy for installation.
- · IP67, IK10 (optional) protection.
- SMD Plus.













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.

Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

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							Video	
Camera							Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Image Sensor		1/2.7" CMOS					Smart Codec	Smart H.265+; Smart H.264+
Max. Resolution		3840 (H) × 2160 (V)					Video Frame Rate	Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max, frame rates of
ROM		128 MB						
RAM		256 MB						
Scanning System		Progressive						each stream; for multiple streams, the values will be
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						subjected to the total encoding capacity.
Min. Illumination		0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					Streaming Capability Resolution	2 streams 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728); 4M (2880 × 1620/2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480);
S/N Ratio		> 56 dB						
Illumination Distance		Up to 60 m (196.85 ft) (IR) Up to 60 m (196.85 ft) (Warm light)					Bit Rate Control	VGA (640 × 480); CIF (352 × 288/352 × 240) VBR;CBR
Illuminator On/Off Control		Auto;Manual					Video Bit Rate	H.264: 32 kbps–8192 kbps;
Illuminator Number		4 (Multi-core (IR + warm) light)						H.265: 12 kbps–8192 kbps
Angle Adjustment		Pan: 0°–360°					Day/Night	Auto(ICR)/Color/B/W
		Tilt: 0°–90° Rotation: 0°–360°					BLC	Yes
Lens							HLC	Yes
Lens Type		Motorized vari-focal					WDR	120 dB
Lens Mount		ф14					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Focal Length		2.7 mm-13.5 mm					Gain Control	Auto/Manual
Max. Aperture		F1.5					Noise Reduction	3D NR
Field of View		H: 114°-32°; V: 58°-17°; D: 138°-36°					Motion Detection	OFF/ON (4 areas, rectangular)
Iris Control		Fixed					Region of Interest (RoI)	Yes (4 areas)
Close Focus Distance		0.8 m (2.62 ft)					Smart Illumination	Yes
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Smart Dual Light	Yes
	W	85.3 m (279.86 ft)	34.1 m (111.88 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
	Т	280.0 m	112.0 m	56.0 m	28.0 m		Mirror	Yes
	*DOD! /D-+	*DORI (Detect, Observe, Recognize, Identify) is a standard system					Privacy Masking	4 areas
	(EN-62676-4) for defining the ability of a person viewing the				•		Audio	
		o to distinguish persons or objects within a covered area. numbers in this table do not reflect intelligent function					Built-in MIC	Yes, built-in Mic
	distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						Audio Compression	G.711a; G.711Mu; G.726; PCM
Intelligence						Alarm		
IVS (Perimeter Protection)		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; defocus detection; external alarm; SMD; security exception
SMD		SMD Plus					Network	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Network Port	RJ-45 (10/100 Base-T)
		event videos					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: PPPoF: Rouigur: P2P

NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour; P2P