

DH-IPC-HFW2649T-ZAS-IL

6MP 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 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.

- 6-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 6MP (3288 × 1850) @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 function 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.
- 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 Fullcolor 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.

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Technical Specification Camera 1/2.7" CMOS Image Sensor Max. Resolution 3288 (H) × 1850 (V) ROM 128 MB 256 MB RAM Progressive Scanning System Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s 0.007 lux@F1.5 (Color, 30 IRE) Min. Illumination 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on) S/N Ratio >56 dB Up to 60 m (196.85 ft) (IR) Illumination Distance Up to 60 m (196.85 ft)) (Warm light) Illuminator On/Off Control Auto;Manual Illuminator Number 4 (Multi-core (IR + warm) light) Pan: 0°-360°; Angle Adjustment Tilt: 0°-90°: Rotation: 0°-360° Lens Lens Type Motorized vari-focal Lens Mount φ14 2.7 mm-13.5 mm Focal Length Max. Aperture F1.5 H: 114°-32°; Field of View V: 58°-17°; D: 138°-36° Iris Control Fixed Close Focus Distance 0.8 m (2.62 ft) Lens Detect Observe Recognize Identify 64 0 m 25.6 m 12.8 m 64 m W (209.97 ft) (83.99 ft) (41.99 ft) (20.99 ft)

DORI Distance Т

*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.

84.0 m

(275.59 ft)

42.0 m

(137.80 ft)

21.0 m

(68.90 ft)

Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
SMD	SMD Plus
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

210.0 m

(688.98 ft)

Video H.265; H.264; H.264H; H.264B; MJPEG (Only supported Video Compression by sub stream) Smart Codec Smart H.265+; Smart H.264+ Main stream: 3288 × 1850@(1-20 fps)/2688 × 1520@(1-25/30 fps) sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 Video Frame Rate 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. Streaming Capability 2 streams 6M (3288 × 1850/3200 × 1800); 5M (2880 × 1620); 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × Resolution 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Bit Rate Control VBR·CBR H.264: 32 kbps-8192 kbps; Video Bit Rate H.265: 12 kbps-8192 kbps Auto(ICR)/Color/B/W Day/Night BLC Yes HIC Yes WDR 120 dB Auto; natural; street lamp; outdoor; manual; regional White Balance custom Gain Control Auto/Manual Noise Reduction 3D NR OFF/ON (4 areas, rectangular) Motion Detection Region of Interest (RoI) Yes (4 areas) Smart Illumination Yes Smart Dual Light Yes 0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 Image Rotation resolution and lower) Yes Mirror Privacy Masking 4 areas Audio Built-in MIC Yes, built-in Mic Audio Compression G.711a; G.711Mu; G.726; PCM; Alarm No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion Alarm Event detection; video tampering; tripwire; intrusion; audio detection; voltage detection; defocus detection; SMD; security exception Network Network Port RJ-45 (10/100 Base-T) IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; Network Protocol RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour; P2P

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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; DoLynk Care	
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	
Port		
Audio Input	1 channel (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	1 channel in: wet contact, 5 mA 3–5 VDC	
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC	
Power		
Power Supply	12 VDC/PoE	
Power Consumption	Basic: 2.6 W (12 VDC), 3.1 W (PoE); Max.: 10.2 W (12 VDC), 12.7 W (PoE) (H.265 + intelligence on+ WDR + warm light intensity)	
Environment		
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	
Operating Humidity	≤95% (RH), non-condensing	
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	
Storage Humidity	≤95% (RH), non-condensing	
Protection	IP67; IK10 (optional)	
Structure		
Casing Material	Metal	
Product Dimensions	238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57") (L × W × H)	
Net Weight	0.76 kg (1.68 lb)	
Gross Weight	0.95 kg (2.09 lb)	

Ordering Information

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Туре	Model	Description	
IP CAMERA	DH-IPC-HFW2649T-ZAS-IL	6MP Smart Dual Light Vari-focal Bullet WizSense Network Camera	
Accessories (Optional)	DH-PFA130-E	Water-proof Junction Box	
	DH-PFA151	Corner Mount Bracket	
	G3416GW	G3/4" Water Joint	
	DH-PFA152-E	Pole Mount Bracket	
	DH-PFA135	Junction Box	
	DH-PFM321-EN	DC12V1A power adapter	
	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-PFA130-E

Water-proof Junction Box



DH-PFA135

Junction Box



DH-PFA151 Corner Mount Bracket



DH-PFM320D-EN DC12V2A power adapter



DH-PFM321-EN

DC12V1A power adapter

G3416GW G3/4" Water Joint

DH-PFA152-E Pole Mount Bracket



DHI-TF-P100/256GB MicroSD Card

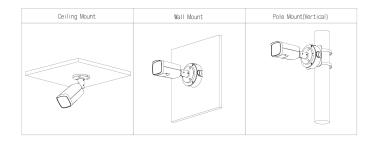


PFM900-E Integrated Mount Tester

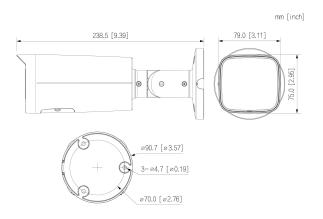




DHI-TF-W100-256GB MicroSD Card



Dimensions (mm[inch])



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