



Camjo-8MP-W

8MP IR Fixed-focal Eyeball 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

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.

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.

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.

- 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 IR LED, and the max. illumination distance is 30 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.
- · IP67 protection.
- · SMD Plus.













WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

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 compromising 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 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.

Camera 3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 3072 × 1728); 2880 × 1620 (2880 × 3072 × 1728); 2880 × 1620 (2880 × 2688 × 1520); 3M (2048 × 1536); 2: 1296 (2304 × 1296); 1080p (1920 × 1080p); 1.3M (960); 720p (1280 × 720); D1 (704 × 576/704 × 48 (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor
Max. Resolution 3840 (H) × 2160 (V) 1296 (2304 × 1296); 1080p (1920 × 1080); 12.9Mr (960); 720p (1280 × 720); D1 (704 × 576/704 × 48 (640 × 480); CIF (352 × 288/352 × 240) ROM 128 MB Bit Rate Control CBR/VBR RAM 256 MB Video Bit Rate H.264: 32 kbps-8192 kbps Scanning System Progressive Day/Night Auto(ICR)/Color/B/W Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s BLC Yes Min. Illumination 0.009 lux@F2.0 (Color, 30 IRE) 0 lux (Illuminator on) HLC Yes S/N Ratio >56 dB WDR 120 dB Illumination Distance 30 m (98.43 ft) (IR) White Balance Auto; natural; street lamp; outdoor; manual; regic custom
RAM 256 MB Scanning System Progressive Video Bit Rate H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps H.265: 12 kbps-8192 kbps Bit Rate Control CBR/VBR Video Bit Rate Control H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps Day/Night Auto(ICR)/Color/B/W BLC Yes Min. Illumination 0.009 lux@F2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on) S/N Ratio >56 dB WDR 120 dB Illumination Distance 30 m (98.43 ft) (IR) White Balance Auto; natural; street lamp; outdoor; manual; regions of the program o
RAM 256 MB Scanning System Progressive Video Bit Rate H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s Min. Illumination 0.009 lux@F2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on) S/N Ratio >56 dB WDR 120 dB Illumination Distance 30 m (98.43 ft) (IR) White Balance Auto; natural; street lamp; outdoor; manual; regions of the program of th
Scanning System Progressive Auto/Manual 1/3 s-1/100,000 s Day/Night Auto(ICR)/Color/B/W BLC Yes Min. Illumination 0.009 lux@F2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on) HLC Yes S/N Ratio >56 dB WDR 120 dB Illumination Distance 30 m (98.43 ft) (IR) White Balance White Balance Wideo Bit Rate H.265: 12 kbps-8192 kbps Huto(ICR)/Color/B/W Auto(ICR)/Color/B/W Muto(ICR)/Color/B/W Auto(ICR)/Color/B/W Wes BLC Yes WDR 120 dB White Balance
Min. Illumination O.009 lux@F2.0 (Color, 30 IRE) O lux (Illuminator on) S/N Ratio S/N Ratio S-56 dB WDR 120 dB Illumination Distance 30 m (98.43 ft) (IR) White Balance Auto; natural; street lamp; outdoor; manual; regions outdoor; manual; manu
Min. Illumination 0.0009 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on) HLC Yes S/N Ratio >56 dB WDR 120 dB Illumination Distance 30 m (98.43 ft) (IR) White Balance Auto; natural; street lamp; outdoor; manual; regions of the control of t
O lux (Illuminator on) S/N Ratio >56 dB WDR 120 dB Illumination Distance 30 m (98.43 ft) (IR) White Balance Auto; natural; street lamp; outdoor; manual; regions ou
Illumination Distance 30 m (98.43 ft) (IR) White Balance Auto; natural; street lamp; outdoor; manual; region custom
Illuminator On/Off Control Auto: Manual
Illuminator On/Off Control Auto; Manual Gain Control Auto: Manual
Gain Control Auto, Ividitudi
Illuminator Number 1 (IR LED) Noise Reduction 3D NR
Pan: 0°–360° Pan/Tilt/Rotation Range Tilt: 0°–78° Motion Detection OFF/ON (4 areas, rectangular)
Rotation: 0°–360° Region of Interest (RoI) Yes (4 areas)
Lens Smart Illumination Yes
Lens Type Fixed-focal O°/90°/180°/270° (Support 90°/270° with 2688 × Image Rotation Fixed-focal Organization
Lens Mount M12 - resolution and lower)
Focal Length 2.8 mm;3.6 mm Mirror Yes
Max. Aperture F2.0 Privacy Masking 4 areas
Field of View 2.8 mm: H: 106°; V: 56°; D: 125° Audio 3.6 mm: H: 88°; V: 46°; D: 104°
Iris Control Fixed Built-in MIC Yes
Close Focus Distance 2.8 mm: 1.3 m (4.27 ft) Audio Compression G.711a; G.711Mu; PCM; G.726
3.6 mm: 1.9 m (6.23 ft) Alarm
Lens Detect Observe Recognize Identify No SD card; SD card full; SD card error; network Recognize Identify No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
Distance 2.8 mm (288.71 ft) (115.49 ft) (57.74 ft) (28.87 ft) Alarm Event detection; video tampering; tripwire; intrusion; a detection; voltage detection; SMD; security exce
3.6 mm 106.7 m 42.7 m 21.3 m 10.7 m (350.07 ft) (140.09 ft) (69.88 ft) (35.10 ft) Network
Intelligence Network Port RJ-45 (10/100 Base-T)
Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human) Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human) Yes
Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Network Protocol Network Protocol Network Protocol Multicast; ICMP; IGMP; NFS; PPPoE; Boujour
Video Onvif (Profile S/Profile G/Profile T); CGI; P2P; Mil
Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) User/Host 20 (Total bandwidth: 48 M)
Smart Codec Smart H.265+; Smart H.264+ Storage FTP; SFTP; Micro SD card (support max. 256 GB);
Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@ (1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 IE Chrome Firefox
Video Frame Rate fps) *The values above are the max. frame rates of each *The values above are the max. frame rates are the max. frame rates are the max. fram
stream; for multiple streams, the values will be subjected to the total encoding capacity. Mobile Client iOS; Android

Wiz Sense | Camjo-8MP-W

|--|

Certification

	CE-LVD: EN62368-1;
	CE-EMC: Electromagnetic Compatibility Directive
Certifications	2014/30/EU;
	FCC: 47 CFR FCC Part 15, Subpart B;
	UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.7 W (12 VDC); 3.4 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 4.5 W (12 VDC); 5.4 W (PoE)

Environment

Operating Temperature	-40 °C to +55 °C (-40 °F to +131 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67

Structure

Casing Material	Inner core: Metal Cover: Metal Decoration ring: Plastic Quick install mounting plate: Metal
Product Dimensions	99.1 mm × Φ121.9 mm (3.90"× Φ4.80")
Net Weight	0.48 kg (1.06 lb)
Gross Weight	0.68 kg (1.50 lb)

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFB204W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



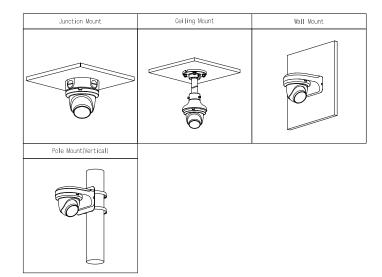
12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

