



CAM-3841

8MP IR Vari-focal Eyeball WizSense Network Camera





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

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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

- 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840×2160) @20 fps (Al function enabled by default) and supports 8MP (3840×2160) @25/30 fps (when Al function disabled)
- H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max. IR distance: 50 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire (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. 256 G Micro SD card, built-in Mic
- 12V DC/PoE power supply
- IP67 protection
- · SMD Plus













Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

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.

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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.





Technical Sp	ecificatio	on					Stream Capability	3 streams
Camera							8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Image Sensor		1/2.8"8Megapixel progressive CMOS						Resolution
Max. Resolution		3840 (H) × 2160 (V)						
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		512 MB					Video Dit Dete	H.264: 3 kbps-8192 kbps
Scanning System		Progressive					Video Bit Rate	H.265: 3 kbps–8192 kbps
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Day/Night	Auto (ICR)/Color/B/W
Min. Illumination	1	0.007 Lux @F1.5					BLC	Yes
S/N Ratio		>56 dB					HLC	Yes
Illumination Dist	ance	50 m (164 ft)					WDR	120 dB
Illuminator On/C	Off Control	Auto/Manual					Scene Self-adaptation	Yes
Illuminator Num	Illuminator Number		2 (IR LED)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Pan/Tilt/Rotation	n Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Gain Control	Auto/Manual	
Lens		Rotation: 0 –360				Noise Reduction	3D DNR	
Lens Type		Motorized vari-focal					Motion Detection	OFF/ON (4 areas, rectangular)
Mount Type		ф14					Region of Interest (RoI)	Yes (4 areas)
Focal Length		2.7 mm-13.5 mm					Smart Illumination	Yes
Max. Aperture		F1.5					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Field of View		Horizontal: 113°–31° Vertical: 58°–17° Diagonal:138°–36°					Mirror	Yes
Iris Type		Fixed					Privacy Masking	4 areas
Close Focus Dista	ance	0.8 m (2.6 ft)				Audio		
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes
	W	85.3 m	34.1 m	17.0 m	8.5 m		Audio Compression	G.711a; G.711Mu; G726; AAC
DORI Distance	VV	(279.9 ft) 280.0 m	(111.9 ft)	(55.8 ft)	(27.9 ft)		Alarm	
Professional,	⊤ intellige	(918.6 ft)	112.0 m (367.5 ft)	56.0 m (183.7 ft)	28.0 m (91.9 ft)			No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion
Perimeter Protec		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)					Alarm Event	detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.					Network	
Video		videos.					Network	RJ-45 (10/100 Base-T)
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					SDK and API	Yes
Smart Codec		Smart H.265+/ Smart H.264+					Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QOS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
Video France Det		Main stream: 3840 × 2160 @(1–20 fps by default) 3840 × 2160 @(1–25/30 fps when AI function disabled)					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Video Frame Rate		sub stream: 704 × 576 @(1–25 fps)/704 × 480 @ (1–30 fps) third stream:					User/Host	20 (Total bandwidth: 72 M)
		1920 × 1080 @(1–25/30 fps)				Storage	Dahua Cloud (only supported by Dahua version); FTP; SFTP; Micro SD card (support max. 256 G); NAS	

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Browser	IE: IE8; IE9; IE11 Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android

Certification

	CE-LVD: EN62368-1
	CE-EMC: Electromagnetic Compatibility Directive
Certifications	2014/30/EU
	FCC: 47 CFR FCC Part 15, Subpart B
	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

Power

Power Supply	12V DC/PoE (802.3af)	
Power Consumption	Basic power consumption: 2.6W (12V DC); 3.3W (PoE) Max. power consumption (WDR + H.265 + IR LED intensity): 6W (12V DC); 7.3W (PoE)	

Environment

Operating Conditions	-30°C to +60°C (-22°F to +140°F)/Less than 95% RH
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67

Structure

Casing	Metal
Dimensions	108.3 mm × Φ122 mm (4.3" × Φ4.8")
Net Weight	685g (1.5 lb)
Gross Weight	828 g (1.8 lb)

Accessories

Optional:







PFA130-E Junction Box

PFB203W Wall Mount

PFA106 Mount Adapter







PFB220C Celling Mount

PFA152-E Pole Mount

PFM321D DC12V1A Power Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

Junction Mount	Wall Mount	Ceiling Mount	Pole Mount
PFA130-E	PFB203W	PFA106+PFB220C	PFB203W+PFA152-E

Dimensions (mm[inch])



