



DH-IPC-HDBW3449E-AS-NI

4MP Full-color Fixed-focal Dome 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 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. In addition, with full-color technology, it provides a better image effect in the condition of low illuminance.

Functions

Full-color

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

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.

- 4MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @ 30 fps
- H.256 coding, high compression rate, low bit rate
- 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 abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card
- 12V DC/PoE power supply
- IP67, IK10 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) are largely reduced.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Protection (IP67, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.





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Technical Specification							WDR	120 dB	
Camera							White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Image Sensor		1/2.7"4Megapixel progressive CMOS					Gain Control	Auto/Manual	
Max. Resolution		2688 (H) × 1520 (V)					Noise Reduction	3D DNR	
ROM		128 MB					Motion Detection	OFF/ON (4 areas, rectangular)	
RAM		512 MB					Region of Interest (RoI)	Yes (4 areas)	
Scanning System	Scanning System		Progressive				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					_	resolution and lower.)	
Min. Illumination		0.003 Lux@F1.0					Mirror	Yes	
S/N Ratio	S/N Ratio		> 56 dB				Privacy Masking	4 areas	
D /Tilk /D t ti	D	Pan: 0°–355°					Audio		
Pan/Tilt/Rotation	on Range	Tilt: 0°–65° Rotation: 0°–355°					Audio Compression	G.711a; G.711Mu; G726	
Lens							Alarm		
Lens Type		Fixed-focal					Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD	
Mount Type		M12							
Focal Length	Focal Length		2.8 mm; 3.6 mm						
Max. Aperture		F1.0					Network		
Field of View	Field of View		2.8 mm: Horizontal 103° × vertical 53° × diagonal 122° 3.6 mm: Horizontal 80° × vertical 43° × diagonal 95°				Network	RJ-45 (10/100 Base-T)	
Iris Type		Fixed					SDK and API	Yes	
Close Focus Distance		2.8 mm: 1.2 m (3.9 ft) 3.6 mm: 2.4 m (7.9 ft)					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; SNMP	
	Lens	Detect 56.0 m	Observe 22.4 m	Recognize 11.2 m	Identify 5.6 m			Video encryption; firmware encryption; configuration	
DORI Distance	2.8mm 3.6mm	(183.7 ft) 80.0 m (262.5 ft)	(73.5 ft) 32.0 m (105.0 ft)	(36.7 ft) 16.0 m (52.5 ft)	(18.4 ft) 8.0 m (26.3 ft)		Cyber Security	encryption; 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	
Professiona	l, Intellige		,				Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone;	
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people)					Scene self-adaptation	Genetec	
		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					(SSA)	Yes	
Intelligent Sear	cn	videos	arch, event ext	raction and me	erging to event		User/Host	20 (Total bandwidth: 64M.)	
Video							Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
Video Compres	sion	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Browser	IE: IE8; IE9; IE11 Chrome Firefox	
Smart Codec		Smart H.265+/ Smart H.264+					Management Software	Smart PSS; DSS; DMSS	
Video Frame Rate		Main stream (2688 × 1520 @ 1–25/30 fps) sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720 @ 1–25/30 fps)					Mobile Phone	IOS; Android	
Stream Capabil	Stream Capability		3 streams				Certification	25 11/2 51/2022 4	
Resolution		4M (2688 × 1520); 3M (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)					Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Bit Rate Control		CBR; VBR					Port		
Video Bit Rate		H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps					Audio Input	1 channel (RCA port)	
Day/Night		Color/B/W					Audio Output	1 channel (RCA port)	
BLC		Yes					Alarm Input	1 channel in: 5mA 3V–5V DC	

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Alarm Output	1 channel out: 300mA 12V DC	
Power		
Power Supply	12V DC/PoE	
Power Consumption	< 4.4W	
Environment		
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than 95%	
Storage Conditions	-40°C to +60°C (-40°F to +140°F)	
Protection Grade	IP67; IK10	
Structure		
Casing	Metal	
Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")	
Net Weight	378 g (0.8 lb)	
Gross Weight	523 g (1.2 lb)	

Ordering Information					
Туре	Part Number	Description			
4MP	DH-IPC-HDBW3449EP-AS-NI	4MP Full-color Fixed-focal Dome WizSense Network Camera,PAL			
Camera	DH-IPC-HDBW3449EN-AS-NI	4MP Full-color Fixed-focal Dome WizSense Network Camera,NTSC			
	PFA136	Junction Box			
	PFA200W	Rain Shade			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
	PFA106	Mount Adapter			
Accessories (optional)	PFB220C	Celling 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			

Accessories

Optional:







PFA200W Rain Shade



PFB203W Wall Mount



PFA152-E Pole Mount



PFA106 Mount Adapter



PFB220C Ceiling Mount



PFM321D DC12V1A Power Adapter



LR1002-1ET/1EC Single-port long reach ethernet over coax extender



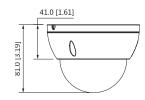
PFM900-E Integrated Mount tester

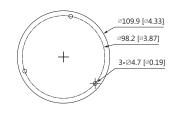


PFM114 TLC SD card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA136	PFA136+PFA200W	FB203W	PFB203W+PFA152-E
		8	
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])





Rev 001.001