

DH-IPC-HDBW3449E-AS-NI

4MP Full-color Fixed-focal Dome 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 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 ultra-low 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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

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



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	ROM		128 MB				Motion Detection	OFF/ON (4 areas, rectangular)	
RAM		512 MB					Region of Interest (RoI)	Yes (4 areas)	
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					Mirror	resolution and lower.) Yes	
Min. Illumination		0.003 Lux @ F1.0							
S/N Ratio		> 56 dB					Privacy Masking	4 areas	
Don/Tilt/Dotation	n Danas	Pan: 0°–355°					Audio		
Pan/Tilt/Rotation	п капge	Tilt: 0°-65° Rotation: 0°-355°					Audio Compression	G.711a; G.711Mu; G726; AAC	
Lens							Alarm		
Lens Type		Fixed-focal						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					Alarm Event		
Focal Length		2.8 mm; 3.6 mm							
Max. Aperture		F1.0					Network		
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; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x;	
	Lens	Detect	Observe	Recognize	Identify			SNMP	
DORI Distance	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	5.6 m (18.4 ft)		Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec	
	3.6mm	80.0 m (262.5 ft)	32.0 m	16.0 m	8.0 m		Scene self-adaptation	Yes	
Professional, Intellige						User/Host	20 (Total bandwidth: 64M.)		
							Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS	
Perimeter Protection Intelligent Search		Tripwire, intrusion (Recognition of vehicle and people) Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					Browser	IE: IE8; IE9; IE11 Chrome Firefox	
Mida -		videos					Management Software	Smart PSS; DSS; DMSS	
Video		H.265; H.264; H.264H; H.264B; MJPEG (only supported					Mobile Phone	IOS; Android	
Video Compressi	ion	by the sub stream)					Certification		
Smart Codec	Smart Codec		/ Smart H.264					CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive	
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)					Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Stream Capability		3 streams					Port		
Resolution		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704					Audio Input	1 channel (RCA port)	
		× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Audio Output	1 channel (RCA port)	
Bit Rate Control		CBR; VBR					Alarm Input	1 channel in: 5mA 3V–5V DC	
Video Bit Rate		H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps					Alarm Output	1 channel out: 300mA 12V DC	
Day/Night		Color/B/W					Power		
BLC		Yes					Power Supply	12V DC/PoE	

Wiz Sense | DH-IPC-HDBW3449E-AS-NI

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)		
Structure Casing Dimensions Net Weight	Metal 81 mm \times Φ 109.9 mm (3.2" \times Φ 4.3") 378 g (0.8 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:







PFA136 Junction Box

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	PFB203W	PFB203W+PFA152-E
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])

 ∇



