



# 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 Al 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, fast moving, parking detection, loitering detection and gathering detection) 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.



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		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					Privacy Masking	4 areas	
S/N Ratio		> 56 dB					Audio		
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–65°					Audio Compression	G.711a; G.711Mu; G726	
1			Rotation: 0°–355°				Alarm		
Lens Type		Fixed-focal					, warrii	No SD card; SD card full; SD card error; less service time	
Mount Type		M12					Alarm Event	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	
Focal Length		2.8 mm; 3.6 mm					Alarm Event		
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 n 3.6 mm: 2.4 n	. ,				Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;	
	Lens	Detect	Observe	Recognize	Identify			Multicast; ICMP; IGMP; NFS; PPPoE; SNMP	
DORI Distance	2.8mm 3.6mm	56.0 m (183.7 ft) 80.0 m (262.5 ft)	22.4 m (73.5 ft) 32.0 m (105.0 ft)	11.2 m (36.7 ft) 16.0 m (52.5 ft)	5.6 m (18.4 ft) 8.0 m (26.3 ft)		Cyber Security	Video encryption; firmware encryption; configuration 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	
Professional, Intellige							Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec	
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people)					Scene self-adaptation	Yes	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					(SSA)		
		videos					User/Host	20 (Total bandwidth: 64M.)	
Video							Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS IE: IE8; IE9; IE11	
Video Compress	sion	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Browser	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)					Mobile Phone	IOS; Android	
Stroom Comphility		third stream (1280 × 720 @ 1–25/30 fps) 3 streams					Certification		
Stream Capability  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:









PFA136 Junction Box

PFA200W Rain Shade

PFB203W Wall Mount









PFA152-E Pole Mount

PFA106 Mount Adapter

PFB220C Ceiling Mount





Adapter





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
Ceiling Mount			
PFA106+PFB220C			

# Dimensions (mm[inch])



