

# DH-IPC-HDBW3249E-AS-NI

2MP 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.

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @ 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  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



BLC

Yes

Technical Sp	ecificati	on					WDR	120 dB	
Camera						White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Image Sensor		1/2.8"2Megapixel progressive CMOS			Gain Control	Auto/Manual			
Max. Resolution		1920 (H) × 1080 (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	
S/N Ratio		> 56 dB							
Min. Illuminatio	Min. Illumination		0.0015 Lux@F1.0				Privacy Masking	4 areas	
Pan/Tilt/Rotation	n Range	Pan: 0°–355° Tilt: 0°–65°					Audio	0.744 0.74414 0.725	
rany mic/Notatio	ni italige	Rotation: 0°–355°				Audio Compression	G.711a; G.711Mu; G726		
Lens		5: 16 1					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	
	Mount Type		M12				Alarm Event		
_	Focal Length		2.8 mm; 3.6 mm					changing; input abnormal; intensity change; tripwire; intrusion; SMD	
Max. Aperture		F1.0					Network		
Field of View		2.8 mm: Horizontal 107° × vertical 55° × diagonal 127° 3.6 mm: Horizontal 84° × vertical 45° × diagonal 99°				Network	RJ-45 (10/100 Base-T)		
Iris Type		Fixed					SDK and API	Yes	
Close Focus Dist	ance	2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.7 m (5.6 ft)						IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMF	
	Lens	Detect	Observe	Recognize	Identify		Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP	
DORI Distance	2.8mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)			Video encryption; firmware encryption; configuration	
	3.6mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 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	
Professional	, Intellige	ent					execution; trusted upgrade  ONVIE/Profile S/Profile G/Profile TV:CGI:P2P:Mileston		
Perimeter Prote	ction		, -	tion of vehicle			Interoperability	Genetec	
Intelligent Searc	ch	-		NVR to perform raction and me			Scene self-adaptation (SSA)	Yes	
Video							User/Host	20 (Total bandwidth: 64M.)	
Video Compress	sion	H.265; H.264; H.264H; H.264B; MJPEG (only supported					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
Smart Codec		by sub stream) Smart H.265+/ Smart H.264+					Browser	IE: IE8; IE9; IE11 Chrome Firefox	
		Main stream (1920 × 1080 @ 1–25/30 fps)					Management Software	Smart PSS; DSS; DMSS	
Video Frame Rate		sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720 @ 1–25/30 fps)					Mobile Phone	IOS; Android	
Stream Capabili	Stream Capability		3 streams				Certification		
Resolution		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	
Bit Rate Control		CBR; VBR					Cer uncations	FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Video Bit Rate		H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps					Port	, 2011 2011 000000 1 07	
Day/Night		Color/B/W					Audio Input	1 channel (RCA port)	

Audio Output

1 channel (RCA port)

# Wiz Sense | DH-IPC-HDBW3249E-AS-NI

Alama lamut	1 channel in: 5mA 3V–5V DC	
Alarm Input	1 channel in: 5mA 3V-5V DC	
Alarm Output	1 channel out: 300mA 12V DC	
Power		
Power Supply	12V DC/PoE	
Power Consumption	< 3.9W	
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			
2MP	DH-IPC-HDBW3249EP-AS-NI	2MP Full-color Fixed-focal Dome WizSense Network Camera,PAL			
Camera	DH-IPC-HDBW3249EN-AS-NI	2MP 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





PFA106

Mount Adapter

PFB220C Ceiling Mount





PFM321D L
DC12V1A Power S



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



PFM900-E Integrated Mount tester



Adapter

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])



