

# DH-IPC-HDBW3249E-AS-NI

2MP 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.

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



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## **Technical Specification**

BLC

Yes

Camera						
Image Sensor		1/2.8"2Megapixel progressive CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
ROM		128 MB				
RAM		512 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
S/N Ratio		> 56 dB				
Min. Illumination		0.0015 Lux@F1.0				
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°				
Lens						
Lens Type		Fixed-focal				
Mount Type		M12				
Focal Length		2.8 mm; 3.6 mm				
Max. Aperture		F1.0				
Field of View		2.8 mm: Horizontal 107° × vertical 55° × diagonal 127° 3.6 mm: Horizontal 84° × vertical 45° × diagonal 99°				
Iris Type		Fixed				
Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.7 m (5.6 ft)				
	Lens	Detect	Observe	Recognize	Identify	
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)	
	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)	
Professional	, Intellige	ent				
Perimeter Prote	ction	Tripwire, intr	usion (Recognit	ion of vehicle a	and people)	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				
Video						
Video Compress	sion	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)				
Smart Codec		Smart H.265+/ Smart H.264+				
Video Frame Rate		Main stream (1920 × 1080 @ 1–25/30 fps) sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720 @ 1–25/30 fps)				
Stream Capability		3 streams				
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				
Bit Rate Control		CBR; VBR				
Video Bit Rate		H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps				
Day/Night		Color/B/W				
DI C			Ver			

WDR	120 dB	
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Gain Control	Auto/Manual	
Noise Reduction	3D DNR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (Rol)	Yes (4 areas)	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 $\times$ 1080 resolution and lower.)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Audio Compression	G.711a; G.711Mu; G726	
Alarm		
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	
Network		
Network	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
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	
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	
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec	
Scene self-adaptation (SSA)	Yes	
User/Host	20 (Total bandwidth: 64M.)	
Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
Browser	IE: IE8; IE9; IE11 Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
Mobile Phone	IOS; Android	
Certification		
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	
Port		
Audio Input	1 channel (RCA port)	
Audio Output	1 channel (RCA port)	

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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°Cto+60°C (-40°Fto+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 Camera	DH-IPC-HDBW3249EP-AS-NI	2MP Full-color Fixed-focal Dome WizSense Network Camera,PAL	
	DH-IPC-HDBW3249EN-AS-NI	2MP Full-color Fixed-focal Dome WizSense Network Camera,NTSC	
Accessories (optional)	PFA136	Junction Box	
	PFA200W	Rain Shade	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
	PFA106	Mount Adapter	
	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:**



Junction Box



Rain Shade



PFB203W Wall Mount



PFA152-E

Pole Mount







PFB220C Ceiling Mount



PFM321D DC12V1A Power Adapter



PFM114 TLC SD card



LR1002-1ET/1EC

Single-port long

reach ethernet over

coax extender

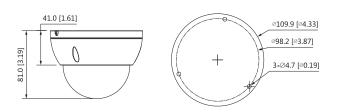


PFM900-E Integrated Mount tester

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

#### Dimensions (mm[inch])

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