



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 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.

- 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) 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 St	nacificati	ion				WDR	120 dB	
Technical Specification							Auto/natural/street lamp/outdoor/manual/regional	
Camera		1/2 0//204-2-2-ival reservoires CMOS				White Balance	custom	
Image Sensor		1/2.8"2Megapixel progressive CMOS				Gain Control	Auto/Manual	
Max. Resolution		1920 (H) × 1080 (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	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1920×1080 resolution and lower.)	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Mirror	Yes	
S/N Ratio	S/N Ratio					Privacy Masking	4 areas	
Min. Illuminatio	on	0.0015 Lux@F1.0				Audio		
Pan/Tilt/Rotation	on Range	Pan: 0°–355° Tilt: 0°–65°				Audio Compression	G.711a; G.711Mu; G726	
1		Rotation: 0°–355°				Alarm	,	
Lens Type		Fixed-focal	Fixed focal			7 (14)		
Mount Type		M12					No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection;	
Focal Length		2.8 mm; 3.6 mm				Alarm Event	IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire;	
Max. Aperture		F1.0					intrusion; SMD	
Field of View		2.8 mm: Horizontal 107° × vertical 55° × diagonal 127°				Network	Network	
		3.6 mm: Horizontal 84° × vertical 45° × diagonal 99°				Network	RJ-45 (10/100 Base-T)	
Iris Type		2.8 mm: 0.8 m (2.6 ft)				SDK and API	Yes	
Close Focus Dis	tance	3.6 mm: 1.7 r					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	Observe	Recognize	Identify	Protocol		
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 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	
	3.6mm	55.2 m	22.1 m	11.0 m	5.5 m	Cyber Security		
Drofossiona	Lintollia	(181.1 ft)	(72.5 ft)	(36.1 ft)	(18.0 ft)			
Professional, Intelligent Perimeter Protection Tripwire, intrusion (Recognition of vehicle and people)				عاداداداداداد	Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone;		
Perimeter Prote	ection	. /	, 0	VVR to perform		Scene self-adaptation	Genetec	
Intelligent Sear	Intelligent Search			raction and me		(SSA)	Yes	
Video						User/Host	20 (Total bandwidth: 64M.)	
Video Compres	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	
			•	@ 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 Capability		3 streams				Certification	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					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		
Day/Night		Color/B/W				Audio Input	1 channel (RCA port)	

Audio Output

1 channel (RCA port)

Yes

BLC

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Alarm Input	1 channel in: 5mA 3V–5V DC	
Alarm Output	1 channel out: 300mA 12V DC	
•	1 Chainer out. Sooma 12 v 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)	

523 g (1.2 lb)

Gross Weight

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

PFB203W Wall Mount





Rain Shade



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

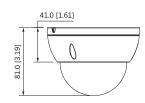
PFM900-E Integrated Mount tester

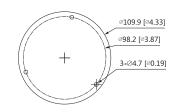


PFM114 TLC SD card

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

Dimensions (mm[inch])





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