

DH-IPC-HFW3249E-AS-NI

2MP Full-color Fixed-focal Bullet 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 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.265 codec, 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 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, built-in Mic
- 12V DC/PoE power supply
- IP67 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, 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.

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



Max. Resolution	Technical Sp	ecificati	on					BLC	Yes
Max. Resolution S00 Pi 100 Pi	-		OII					WDR	120 dB
Max. Revolution 100 10			1/2.8"2Megapixel progressive CMOS					White Balance	Auto/natural/street lamp/outdoor/manual/regional
NOME NOTE			1920 (H) × 1080 (V)						
Manifeman	ROM		128 MB						
Sealing System	RAM		512 MB						
Electronic Shutter Speed	Scanning System	1							
Min. Illumination								Region of Interest (ROI)	
Privacy Masking	•		0.0015 Lux @ F1.0					Image Rotation	the state of the s
Pant	S/N Ratio							Mirror	Yes
Audito Net N	,		. 55 45					Privacy Masking	4 areas
Lens Type	Pan/Tilt/Rotation Range		Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°					Audio	
Major Maj	Lens							Built-in MIC	Yes
Focal Length	Lens Type		Fixed-focal					Audio Compression	G.711a; G.711Mu; G726; AAC
Max. Aperture	Mount Type		M12					Alarm	
Filed of View 2.8 mm: Horizontal 107" × vertical 55" × diagonal 127" 3.6 mm: Horizontal 84" × vertical 45" × diagonal 99" Network	Focal Length		2.8 mm; 3.6 mm					Alarm Event	No SD card; SD card full; SD card error; less service tim of SD card (smart card supports); network disconnectic IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD
Field of View 3.6 mm; Horzontal 307* x vertical 455* x diagonal 127* changing; input abnormal; intensity change; tripwin intrology. SMD	Max. Aperture		F1.0						
Network Network Network Rads (10/100 Base-T) Network N	Field of View								
Lens	Iris Type		Fixed					Network	
DORI Distance 2.8mm	Close Focus Distance							Network	RJ-45 (10/100 Base-T)
DORI Distance 2.8mm (126.6 ft) (50.5 ft) (25.3 ft) (12.8 ft)		Lens	Detect	Observe	Recognize	Identify		SDK and API	Yes
Professional, Intelligent Perimeter Protection Tripwire, intrusion (Recognition of vehicle and people) Work together with Smart NVR to perform refine intelligent Search Work together with Smart NVR to perform refine intelligent Search, event extraction and merging to event videos Video Video Compression 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 stream Resolution 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 220); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Video Bit Rate H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps H	DORI Distance		(126.6 ft) 55.2 m	(50.5 ft) 22.1 m	(25.3 ft)	(12.8 ft) 5.5 m		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; 802.1 SNMP
Perimeter Protection Tripwire, intrusion (Recognition of vehicle and people) Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Video Compression Wideo Smart H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+/ Smart H.264+ 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 Resolution Video Bit Rate Control Certification Tripwire, intrusion (Recognition of vehicle and people) Scene self-adaptation Yes 20 (Total bandwidth: 64M.) Itself, Eg; IE9; IE11 Chrome Firefox Management Software Management Software Smart PSS; DSS; DMSS Mobile Phone IOS; Android Certification Certification Certification CE-LVD: EN62368-1 CE-EIVD: EN62368-1 CE-	D () 1		,	(72.5 ft)	(36.1 ft)	(18.0 ft)		Interoperability	
Intelligent Search Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Video Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+/ Smart H.264+ Video Frame Rate Main stream (1920 × 1080) @ 1-25/30 fps) sub stream (1920 × 720 @ 1-25/30 fps) third stream (1280 × 720 @ 1-25/30 fps) Stream Capability 3 streams Resolution Stream Capability 3 streams Ce-tVD: 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 Wideo Bit Rate Video Bit Rate H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps		_						, ,	
Intelligent Search intelligent search, event extraction and merging to event videos Video Video Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Browser IE: IE8; IE9; IE11 Chrome Firefox Smart Codec Smart H.265+/ Smart H.264+ Management Software Smart PSS; DSS; DMSS Wideo 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 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) Bit Rate Control CBR; VBR Port Video Bit Rate H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps H.266: 3 kbps-8192 kbps Audio Input 1 channel (RCA port)	Perimeter Protection							·	
Storage Cloud; NAS Video Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Browser Cloud; NAS Smart Codec Smart H.265+/ Smart H.264+ Management Software Smart PSS; DSS; DMSS 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) Mobile Phone IOS; Android Stream Capability 3 streams Certification 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)	Intelligent Searc	h	intelligent search, event extraction and merging to event						
Video Compression H.265; H.264; H.264B; MJPEG (only supported by the sub stream) Browser IE: IE8; IE9; IE11 Chrome Firefox Smart Codec Smart H.265+/ Smart H.264+ Management Software Smart PSS; DSS; DMSS Video Frame Rate Main stream (1920 × 1080 @ 1-25/30 fps) sub stream (704 x 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 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)	Vidaa		viueos					Storage	
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) Mobile Phone IOS; Android 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 Certifications 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)								Browser	Chrome
Video Frame Rate sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720 @ 1–25/30 fps) Certification Stream Capability 3 streams 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)	Smart Codec		Smart H.265+/ Smart H.264+					Management Software	Smart PSS; DSS; DMSS
third stream (1280 × 720 @ 1–25/30 fps) Stream Capability 3 streams 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 H.265: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps	Video Frame Rate		sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps)					Mobile Phone	IOS; Android
Resolution								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-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)	Stream Capability		3 streams					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Video Bit Rate H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps Audio Input 1 channel (RCA port)	Resolution		× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF						
H.265: 3 kbps—8192 kbps Audio Input 1 channel (RCA port)	Bit Rate Control							Port	
Day/Night Color/B/W Audio Output 1 channel (RCA port)	Video Bit Rate							Audio Input	1 channel (RCA port)
	Day/Night		Color/B/W					Audio Output	1 channel (RCA port)

Wiz Sense | DH-IPC-HFW3249E-AS-NI

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	< 4.3W	
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	
Structure		

Casing	Metal
Dimensions	192.7 mm × 70.5 mm × 66.4 mm (632.2" × 231.3" × 217.8") (L × W × H)
Net Weight	590 g (1.3 lb)
Gross Weight	780 g (1.7 lb)

Ordering Information						
Туре	Part Number	Description				
2MP	DH-IPC-HFW3249EP-AS-NI	2MP Full-color Fixed-focal Bullet WizSense Network Camera, PAL				
Camera	DH-IPC-HFW3249EN-AS-NI	2MP Full-color Fixed-focal Bullet WizSense Network Camera, NTSC				
	PFA134	Junction Box				
	PFA152-E	Pole Mount				
Accessories	PFM321D	DC12V1A Power Adapter				
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	PFM114	TLC SD Card				

Accessories

Optional:



PFA134

Junction Box







PFA152-E Pole Mount





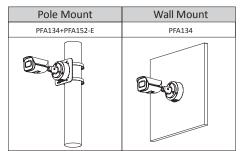




PFM900-E Integrated Mount tester



PFM114 TLC SD card



Dimensions (mm[inch])

