

DH-IPC-HDBW3441E-AS

4MP IR 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. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

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.

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.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520)@30 fps
- H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max. IR distance: 50 m
- 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: In, out; Audio: In, out; Supports max. 256 G Micro SD card
- 12V DC/POE power supply
- IP67, IK10 protection
- · SMD Plus













Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

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.



Stream Capability

3 streams

Technical Specification						4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 ×			
Camera							Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Image Sensor	Image Sensor		ixel progressiv	e CMOS			Bit Rate Control CBR/VBR		
Max. Resolution	Max. Resolution		2688 (H) ×1520 (V)				Video Bit Rate	H.264: 3 Kbps–8192 Kbps	
ROM		128 MB						H.265: 3 Kbps–8192 Kbps	
RAM		512 MB					Day/Night	Auto(ICR)/Color/B/W	
Scanning System		Progressive					BLC	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					HLC	Yes	
Min. Illumination		0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)					WDR White Balance	120 dB Auto/natural/street lamp/outdoor/manual/regional custom	
S/N Ratio		> 56 dB					Gain Control	Auto/Manual	
Illumination Dis	tance	50 m (164.0 ft)					Noise Reduction	3D DNR	
Illuminator On/	Off Control	Auto/Manual					Motion Detection	OFF/ON (4 areas, rectangular)	
Illuminator Nun	nber	3 (IR LED)					Region of Interest(RoI)	Yes (4 areas)	
			· Tilt· 0°_65°· F	Rotation: 0°=3	ξ ς °			, ,	
Pan/Tilt/Rotation Range Lens		Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°					Smart Illumination	Yes 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080	
Lens Type		Fixed-focal					Image Rotation	resolution and lower.)	
Mount Type		M12					Mirror	Yes	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Privacy Masking	4 areas	
Max. Aperture		F1.6					Audio		
Field of View				ertical: 55°; diag			Audio Compression	G.711a; G.711Mu; G726	
Field of View		3.6 mm: Horizontal:84°; vertical: 45°; diagonal: 100° 6 mm: Horizontal:52°; vertical: 28°; diagonal: 61°					Alarm		
Iris Type		Fixed						No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection;	
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft) 6 mm: 3.2 m (10.5 ft)					Alarm Event	IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD	
	Lens	Detect	Observe	Recognize	Identify		Network		
	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.8 ft)	5.6 m (18.4 ft)			RJ-45 (10/100 Base-T)	
DORI Distance	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.3 ft)		Mirror Mirror Privacy Masking Audio Audio Compression Alarm Alarm Event Network Network Network SDK and API Protocol Protocol	Yes	
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4 ft)		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;	
Professiona	l, Intellige	ent						Multicast; ICMP; IGMP; NFS; PPPoE; SNMP Video encryption; firmware encryption; configuration	
Perimeter Prote	ection	Tripwire; intrusion (Recognition of human and vehicle)					Cybor Socurity	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509	
Intelligent Searc	Intelligent Search			IVR to perform raction and me			Cyber Security	certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
		videos					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec	
Video		W265 W264 W264W W2645 ************************************					Scene Self-adaptation (SSA)	Yes	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					User/Host	20 (Total bandwidth: 64 M)	
Smart Codec		Smart H.265+/ Smart H.264+					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
Video Frame Ra	ite	Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)					Browser	IE: IE8, IE9, IE11 Chrome Firefox	

Management Software

Smart PSS, DSS, DMSS

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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)					
Alarm Input	1 channel in: 5mA 3V–5V DC					
Alarm Output	1 channel out: 300mA 12V DC					
Power						
Power Supply	12V DC/PoE (802.3af)					
Power Consumption	<7.3W					
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; IK10					
Structure						
Casing	Metal					
Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")					
Net Weight	378 g (0.8 lb)					

Ordering Information					
Туре	Part Number	Description			
4MP	DH-IPC-HDBW3441EP-AS	4MP IR Fixed focal Dome WizSense Network Camera,PAL			
Camera	DH-IPC-HDBW3441EN-AS	4MP IR 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			

523 g (1.2 lb)

Gross Weight

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Accessories

Optional:



PFA136 Junction Box



PFA200W Rain Shade



PFB203W Wall Mount



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	PFB203W	PFB203W+PFA152-E
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])



