

DH-IPC-HDBW3441R-AS-P

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

Functions

EPTZ

With advanced target detection and tracking algorithms, Dahua EPTZ technology can simultaneously zoom in and track multiple humans and vehicles that trigger alarms. It provides rich details and a panoramic view at the same time.

SMD 3.0

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.

- 4-MP 1/2.7" CMOS starlight-grade image sensor, low luminance, and high definition image.
- Outputs 4 MP (2688 × 1520) @25/30 fps, and supports max. 5 MP (2880 × 1620) @20 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 15 m.
- ROI, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions 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, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply.
- IP67, IK10 protection.
- EPTZ: Enlarge and track the targets of intelligent alarms.
- SMD 3.0.













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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification								Main stream: 2880 × 1620 @(1–20 fps)/2688 × 1520 @ (1–25/30 fps)
Camera								sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps)
Image Sensor		1/2.7" CMOS					Video Frame Rate	third stream:1920 × 1080 @ (1–25/30 fps) *The values above are the max. frame rates of each
Max. Resolution		2880 (H) × 1620 (V)					stream; for multiple streams, the values will be subjected to the total encoding capacity.	
ROM		128 MB					Stream Capability	3 streams
RAM		512 MB					Resolution	576/704×480); VGA(640 × 480); CIF(352 × 288/352 × 240)
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Dit Data Control	
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Bit Rate Control Video Bit Rate	CBR/VBR H.264: 3 kbps–8192 kbps; H.265: 3 kbps–8192 kbps
S/N Ratio		>56 dB					Day/Night	Auto (ICR)/Color/B/W
Illumination Distance		15 m (49.21 ft) (IR LED)					BLC	Yes
Illuminator On/Off Control		Auto					HLC	Yes
Illuminator Number		3 (IR LED)					WDR	120dB
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80°					Scene Self-adaptation (SSA)	Yes
	·	Rotation: 0°–355°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens							Gain Control	Auto; Manual
Lens Type		Fixed-focal					Noise Reduction	3D NR
Lens Mount		M12					Motion Detection	OFF/ON (4 areas, rectangular)
	Focal Length		2.1 mm				Region of Interest (RoI)	Yes (4 areas)
Max. Apertu	re	F2.0					Smart Illumination	Yes
Field of View		LDC is disabled: Horizontal: 180°; Vertical: 78°; Diagonal: 180° LDC is enabled (by default):					Defog	Yes
		Horizontal: 170°; Vertical: 75°; Diagonal: 175°					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688×1520 resolution and lower)
Close Focus Distance		0.6 m (1.97 ft)				Mirror	Yes	
DORI	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	4 areas
Distance	2.1 mm	52.0 m (170.60 ft)	20.8 m (68.24 ft)	10.4 m (34.12 ft)	5.2 m (17.06 ft)		Audio	
Intelligence							Built-in MIC	Yes
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
SMD 3.0		human) Less false alarm, longer detection distance					Alarm	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; SMD; security exception
Video Compression		H.265; H.264; H.264B; MJPEG (Only supported by the						
Video Compression		sub stream)					Network	
Smart Codec		Smart H.265+; Smart H.264+					Network Port	RJ-45 (10/100 Base-T)
Al Coding		AI H.265; AI H.264					SDK and API	Yes

Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade		
Network Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P		
User/Host	20 (Total bandwidth: 64 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS		
Browser	IE Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
Mobile Client	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: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14		
Port			
Audio Input	1 channel (RCA port)		
Audio Output	1 channel (RCA port)		
Alarm Input	1 channel in: 5 mA 3–5V DC		
Alarm Output	1 channel out: 1,000 mA 30V DC/500mA 50V DC		
Power			
Power Supply	12 VDC/PoE		
Power Consumption	Basic: 3.2W (12 V DC); 3.9 W (PoE) Max. (H.265+main stream/IR intensity+IR on): 6.4 W (12V DC); 7.7 W (PoE)		
Environment			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)/Less than 95% RH		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Protection	IP67, IK10		
Structure			
Casing	Metal		
Product Dimensions	94 mm × Φ122.0 mm (3.70" × Φ4.80")		
Net Weight	500 g (1.10 lb)		
Gross Weight	770 g (1.69 lb)		

Ordering Information						
Туре	Model	Description				
4MP Camera	DH-IPC-HDBW3441R-AS-P	4MP Wide Angle Fixed Dome WizSense Network Camera				
4IVIP Camera	IPC-HDBW3441R-AS-P	4MP Wide Angle Fixed Dome WizSense Network Camera				
	PFA137	Junction Box Bracket				
	PFA109	Mount Adapter				
	PFB220C	Ceiling Mount Bracket				
Accessories	PFB203W	Wall Mount				
(optional)	PFA152-E	Pole Mount				
	PFM321D	12 VDC 1 A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	TLC SD Card				

Accessories

Optional:







PFA109 Mount Adapter



PFB220C Ceiling Mount Brack



PFM321D 12 VDC 1 A Power Adapter



PFB203W Wall Mount



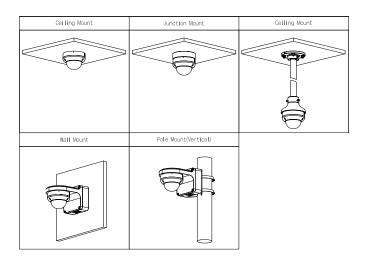
PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card



Dimensions (mm[inch])

