

DH-IPC-HDBW3441F-AS-M

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, fast moving, parking detection, loitering detection and gathering detection) 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 detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 G Micro SD card, built-in Mic
- 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.

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, 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.





Technical Specification Camera 1/3"4Megapixel progressive CMOS Image Sensor 2688 (H) ×1520 (V) Max. Resolution ROM 128 MB RAM 512 MB Scanning System Progressive Auto/Manual 1/3 s-1/100000 s **Electronic Shutter Speed** Min. Illumination 0.005 Lux@F1.6 S/N Ratio > 56 dB Illumination Distance 50 m (164.0 ft) Illuminator On/Off Control Auto/Manual Illuminator Number 8 (IR LED) Pan/Tilt/Rotation Range Pan: -30°-30°; Tilt: 0°-80°; Rotation: 0° to 360° Lens Fixed-focal Lens Type Mount Type M12 Focal Length 2.8 mm; 3.6 mm; 6 mm Max. Aperture 2.8 mm: Horizontal:103°; vertical: 55°; diagonal: 122° Field of View 3.6 mm: Horizontal:84°; vertical: 45°; diagonal: 100° 6 mm: Horizontal:52°; vertical: 28°; diagonal: 61° Iris Type 2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft) Close Focus Distance 6 mm: 3.2 m (10.5 ft) Lens Observe Recognize Identify Detect 56.0 m 22.4 m 11.2 m 5.6 m 2.8mm (183.7 ft) (73.5 ft) (36.8 ft) (18.4 ft) **DORI** Distance 80.0 m 32.0 m 16.0 m 8.0 m 3.6mm (262.5 ft) (105.0 ft) (52.5 ft) (26.3 ft) 120.0 m 48.0 m 24.0 m 12.0 m 6mm (393.7 ft) (157.5 ft) (78.7 ft) (39.4 ft) Professional, Intelligent Perimeter Protection Tripwire; intrusion (Recognition of human and vehicle) Work together with Smart NVR to perform refine Intelligent Search intelligent search, event extraction and merging to event Video

Video Compression	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 (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)
Stream Capability	3 streams

Resolution	4M (2688 × 1520); 3M (2304 × 1296); 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	Auto(ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
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(RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with 1920×1080 resolution and lower.)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Built-in MIC	Yes	
Audio Compression	G.711a; G.711Mu; G726; AAC	
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; intensity change; tripwire; intrusion; SMD	
Network		

Network	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
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;802.1x;SNMP	
Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec	
Scene Self-adaptation	Yes	
User/Host	20 (Total bandwidth: 64 M)	
Storage	FTP; SFTP;Micro SD Card (support max. 256 G); Dahua Cloud; NAS	
Browser	IE: IE8, IE9, IE11 Chrome Firefox	
Management Software	Smart PSS, DSS, DMSS	
Mobile Phone	IOS; Android	

Certification



CE-LVD: EN62368-1

CE-EMC: Electromagnetic Compatibility Directive

2014/30/EU

FCC: 47 CFR FCC Part 15, Subpart B

Power

Certifications

Power Supply	12V DC/PoE (802.3af)
Power Consumption	<5.7W

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	55 mm × Φ108.9 mm (2.2" × Φ4.3")
Net Weight	380 g (0.8 lb)
Gross Weight	520 g (1.1 lb)

Ordering Information			
Туре	Part Number	Description	
4MP Camera	DH-IPC-HDBW3441FP-AS-M	4MP IR Fixed focal Dome WizSense Network Camera,PAL	
	DH-IPC-HDBW3441FN-AS-M	4MP IR Fixed focal Dome WizSense Network Camera,NTSC	
	PFA139	Junction Box	
	PFB204W	Wall Mount	
	PFA152-E	Pole Mount	
	PFB220C	Mount Adapter	
Accessories	PFA106	Celling Mount	
(optional)	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:







PFA139 Junction Box

PFB204W Wall Mount

PFA152-E Pole Mount

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PFB220C Ceiling Mount

PFA106 Mount Adapter

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	Pole Mount	Celling Mount
PFA139	PFB204W	PFB204W+PFA152-E	PFB220C+PFA106

Dimensions (mm[inch])



