

DH-IPC-HDBW3441F-AS-M

4MP IR Fixed focal Dome WizSense Network Camera



Wiz Sense

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.

WDF

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						4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704			
Camera							Resolution	× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Image Sensor		1/3"4Megapixel progressive CMOS					Bit Rate Control	CBR/VBR	
Max. Resolution		2688 (H) ×1520 (V)					Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps	
ROM		128 MB					Day/Night	Auto(ICR)/Color/B/W	
RAM		512 MB					BLC	Yes	
Scanning System		Progressive					HLC	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					WDR	120 dB	
Min. Illumination		0.005 Lux@F1.6						Auto/natural/street lamp/outdoor/manual/regional	
S/N Ratio		> 56 dB					White Balance	custom	
Illumination Dist	Illumination Distance		50 m (164.0 ft)				Gain Control	Auto/Manual	
Illuminator On/0	Off Control	Auto/Manual					Noise Reduction	3D DNR	
Illuminator Num	ber	8 (IR LED)					Motion Detection	OFF/ON (4 areas, rectangular)	
Pan/Tilt/Rotatio	Pan/Tilt/Rotation Range		°; Tilt: 0°–80°;	Rotation: 0° to	360°		Region of Interest(RoI)	Yes (4 areas)	
Lens						Smart Illumination	Yes		
Lens Type		Fixed-focal					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1920×1080 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		2.8 mm: Horizontal:103°; vertical: 55°; diagonal: 122° 3.6 mm: Horizontal:84°; vertical: 45°; diagonal: 100°					Built-in MIC	Yes	
		6 mm: Horizontal:52°; vertical: 28°; diagonal: 61°					Audio Compression	G.711a; G.711Mu; G726; AAC	
Iris Type		Fixed	~ (2 O ft)				Alarm		
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	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	
	Lens	Detect 56.0 m	Observe 22.4 m	Recognize 11.2 m	Identify 5.6 m			changing; intensity change; tripwire; intrusion; SMD	
DORI Distance	2.8mm	(183.7 ft)	(73.5 ft)	(36.8 ft)	(18.4 ft)		Network		
DONI DISTAILCE	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)		Network	RJ-45 (10/100 Base-T)	
	6mm	120.0 m	48.0 m	24.0 m	12.0 m		SDK and API	Yes	
Professional, Intellige		(393.7 ft) (157.5 ft) (78.7 ft) (39.4 ft)					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	
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)					Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Scene Self-adaptation	Yes	
Video		1000					User/Host	20 (Total bandwidth: 64 M)	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS	
Smart Codec		Smart H.265+/ Smart H.264+					Browser	IE: IE8, IE9, IE11 Chrome Firefox	
Video Frame Rate		Main stream ($2688 \times 1520@1-25/30 \text{ fps}$) sub stream ($704 \times 576@1-25 \text{ fps}/704 \times 480@1-30 \text{ fps}$) third stream ($1280 \times 720@1-25/30 \text{ fps}$)					Management Software	Smart PSS, DSS, DMSS	
3							Mobile Phone	IOS; Android	
Stream Capability		3 streams					Certification		

CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive Certifications 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B

Power

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	DH-IPC-HDBW3441FP-AS-M	4MP IR Fixed focal Dome WizSense Network Camera, PAL		
Camera	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







PFA152-E Pole Mount



PFB220C Ceiling Mount



LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFA106 Mount Adapter



PFM900-E Integrated Mount tester



DC12V1A Power Adapter



PFM114 TLC SD card

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

Dimensions (mm[inch])

