

DH-IPC-HDBW3241F-AS-M

2MP IR Fixed focal Dome WizSense Network Camera



WizSense

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

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.

- 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
- 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						Bit Rate Control	
Image Sensor						CBR/VBR	
Max. Resolution						Video Bit Rate	
ROM						H.264: 3 Kbps–8192 Kbps	
RAM						H.265: 3 Kbps–8192 Kbps	
Scanning System						Day/Night	
Electronic Shutter Speed						Auto(ICR)/Color/B/W	
Min. Illumination						BLC	
S/N Ratio						Yes	
Illumination Distance						HLC	
Illuminator On/Off Control						Yes	
Illuminator Number						WDR	
Pan/Tilt/Rotation Range						120 dB	
Pan: -30°–30°; Tilt: 0°–80°; Rotation: 0°–360°						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(Rol)	
						Yes (4 areas)	
						Smart Illumination	
						Yes	
						Image Rotation	
						0°/90°/180°/270° (Support 90°/270° 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;IGMP;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	
						Certifications	
						CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	

Technical Specification					
Camera					
Image Sensor		1/2.8" 2Megapixel progressive CMOS			
Max. Resolution		1920 (H) ×1080 (V)			
ROM		128 MB			
RAM		256 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s			
Min. Illumination		0.002 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°–360°			

Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm; 3.6 mm; 6 mm			
Max. Aperture		F1.6			
Field of View		2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126° 3.6 mm: Horizontal:87°; vertical: 46°; diagonal: 104° 6 mm: Horizontal:54°; vertical: 29°; diagonal: 63°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft) 6 mm: 2.5 m (8.2 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)
	3.6mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)
	6mm	82.8 m (271.7 ft)	33.1 m (108.6 ft)	16.6 m (54.5 ft)	8.3 m (27.2 ft)

Professional, Intelligent					
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)			
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos			

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 (1920 × 1080@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		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(Rol)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° 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;IGMP;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	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 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)

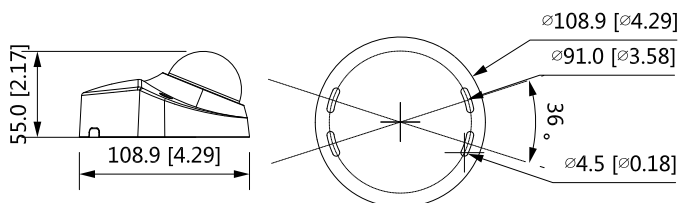


Junction Mount	Wall Mount	Pole Mount	Ceiling Mount
PFA139	PFB204W	PFB204W+PFA152-E	PFB220C+PFA106

Ordering Information

Type	Part Number	Description
2MP Camera	DH-IPC-HDBW3241FP-AS-M	2MP IR Fixed focal Dome WizSense Network Camera,PAL
	DH-IPC-HDBW3241FN-AS-M	2MP IR Fixed focal Dome WizSense Network Camera,NTSC
Accessories (optional)	PFA139	Junction Box
	PFB204W	Wall Mount
	PFA152-E	Pole Mount
	PFB220C	Mount Adapter
	PFA106	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

Dimensions (mm[inch])



Accessories

Optional:

