



DH-IPC-HDBW3241F-AS-M

2MP 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 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: 30 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.

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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Camera						Resolution			
Image Sensor		1/2.8" 2Megapixel progressive CMOS					Bit Rate Control	CBR/VBR	
Max. Resolution		1920 (H) ×1080 (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		256 MB					BLC	Yes	
Scanning System		Progressive					HLC	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					WDR	120 dB	
Min. Illumination		0.002 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
S/N Ratio		> 56 dB					Gain Control	Auto/Manual	
Illumination Dist	Illumination Distance		30 m (98.4ft)				Noise Reduction	3D DNR	
Illuminator On/0	Off Control	Auto/Manual					Motion Detection	OFF/ON (4 areas, rectangular)	
Illuminator Num	Illuminator Number		8 (IR LED)				Region of Interest(RoI)	Yes (4 areas)	
Pan/Tilt/Rotation Range		Pan: -30°-30°; Tilt: 0°-80°; Rotation: 0°-360°					Smart Illumination	Yes	
Lens		Tall30 –30 , Tilt. 0 –80 , Notation. 0 –300					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 \times 1080 resolution and lower)	
Lens Type		Fixed-focal				Mirror	Yes		
Mount Type		M12					Privacy Masking	4 areas	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Audio		
Max. Aperture		F1.6					Built-in MIC	Yes	
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°					Audio Compression	G.711a; G.711Mu; G726	
Iris Type		Fixed					Alarm		
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)					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	
	Lens	Detect	Observe	Recognize	Identify			exception; motion detection; video tampering; scene changing; intensity change; tripwire; intrusion; SMD	
	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)		Network		
DORI Distance	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)		Network	RJ-45 (10/100 Base-T)	
	6mm	82.8 m	33.1 m	16.6 m	8.3 m		SDK and API	Yes	
Professional		(271.7 ft) (108.6 ft) (54.5 ft) (27.2 ft)					Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP	
Perimeter Prote	Perimeter Protection		ısion (Recogni	tion of human	and vehicle)			Video encryption; firmware encryption; configuration	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
Video							Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					Scene Self-adaptation (SSA)	Yes	
Smart Codec		Smart H.265+/ Smart H.264+					User/Host	20 (Total bandwidth: 64 M)	
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(1380 × 730@1–35/30 fps)					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
Stream Canabilit	Chungan Canability		third stream(1280 × 720@1–25/30 fps)				Browser	IE: IE8, IE9, IE11 Chrome Firefox	
Stream Capability		3 streams							

Wiz Sense | DH-IPC-HDBW3241F-AS-M

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)		

520 g (1.1 lb)

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







PFB220C Ceiling Mount

PFA106 Mount Adapter

PFM321D DC12V1A Power Adapter



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



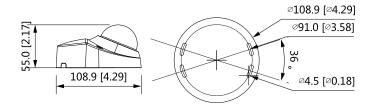
PFM900-E Integrated Mount tester



PFM114 TLC SD card

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

Dimensions (mm[inch])



Gross Weight