

DH-IPC-HDBW3241E-AS

2MP 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.

- 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 abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card
- 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 $\pm 30\%$ 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				
Camera							Resolution	(352 × 288/352 × 240)
Image Sensor		1/2.8" 2Megapixel progressive CMOS			Bit Rate Control	CBR/VBR		
Max. Resolution 1920 (H) ×1080 (V)		80 (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	า	Progressive					HLC	Yes
Electronic Shutt	er Speed	Auto/Manual	1/3 s-1/1000	00 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 Distance		50 m (164.0 ft)					Noise Reduction	3D DNR
Illuminator On/Off Control		Auto/Manual					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Num	ber	3 (IR LED)					Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rotation Range		Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°					Smart Illumination	Yes
Lens							Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1920×1080 resolution and lower.)
Lens Type Mount 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					Audio Compression	G.711a; G.711Mu; G726
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°					Alarm	No CD card, SD card full, SD card array, loss carvice time
Iris Type		Fixed					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
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)					7.00 2.0	exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD
	Lens	Detect	Observe	Recognize	Identify		Network	
	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	RJ-45 (10/100 Base-T)
DORI Distance	3.6mm	55.2 m	22.1 m	11.0 m	5.5 m		SDK and API	Yes
	6mm	(181.1 ft) 82.8 m (271.7 ft)	(72.5 ft) 33.1 m (108.6 ft)	(36.1 ft) 16.6 m (54.5 ft)	(18.0 ft) 8.3 m (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
Professional	, Intellige	ent						Video encryption; firmware encryption; configuration
Perimeter Prote	ction	Tripwire; intr	usion (Recogni	tion of human	and vehicle)		Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
Intelligent Searc	Work together with Smart NVR to perform refine intelligent Search intelligent search, event extraction and merging to event			certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade				
		videos					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Video		H265 H264 H2641 H2642 A45524					Scene Self-adaptation (SSA)	Yes
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					User/Host	20 (Total bandwidth: 64 M)
Smart Codec		Smart H.265+	-/ Smart H.264	+			Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Video Frame Rai	te	sub stream (7	(1920 × 1080@ 704 × 576@1–. (1280 × 720@	25 fps/704 × 48	0@1–30 fps)		Browser	IE: IE8, IE9, IE11 Chrome Firefox



3 streams

Stream Capability

Management Software

Smart PSS, DSS, DMSS

Wiz Sense	DH-IPC-HDBW3241E-AS
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 UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Port	
Audio Input	1-channel (RCA port)
Audio Output	1-channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	<6.9W
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)

Structure

Protection Grade

Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")
Net Weight	378 g (0.8 lb)
Gross Weight	523 g (1.2 lb)

IP67; IK10

Ordering Information					
Туре	Part Number	Description			
2MP Camera	DH-IPC-HDBW3241EP-AS	2MP IR Fixed focal Dome WizSense Network Camera,PAL			
	DH-IPC-HDBW3241EN-AS	2MP IR Fixed focal Dome WizSense Network Camera,NTSC			
	PFA136	Junction Box			
	PFA200W	Rain Shade			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
	PFA106	Mount Adapter			
Accessories (optional)	PFB220C	Celling 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			

Rev 001.001

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Accessories

Optional:



PFA136 Junction Box



PFA200W Rain Shade



PFB203W Wall Mount



PFA152-E Pole Mount



PFA106 Mount Adapter



PFB220C 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

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount		I	
PFA106+PFB220C			

Dimensions (mm[inch])



