

# DH-IPC-HDBW3241E-AS

2MP IR Fixed focal Dome WizSense Network Camera



# Wiz Sense

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) 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.



# Wiz Sense | DH-IPC-HDBW3241E-AS

# **Technical Specification**

Stream Capability

3 streams

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 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)				
S/N Ratio		> 56 dB				
Illumination Distance		50 m (164.0 ft)				
Illuminator On/Off Control		Auto/Manual				
Illuminator Number		3 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°				
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)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	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)	
Doni 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)	
	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	, Intellige	nt				
Perimeter Prote	ction	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)				

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(RoI)	Yes (4 areas)		
Smart Illumination	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 $\times$ 1080 resolution and lower.)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Audio Compression	G.711a; G.711Mu; G726		
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; input abnormal; intensity change; tripwire; intrusion; SMD		
Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
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		
Cyber Security	Video encryption; firmware encryption; configuration 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		
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec		
Scene Self-adaptation (SSA)	Yes		
User/Host	20 (Total bandwidth: 64 M)		
Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS		
Browser	IE: IE8, IE9, IE11 Chrome Firefox		
Management Software	Smart PSS, DSS, DMSS		

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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)		
Protection Grade	IP67; IK10		
Structure			
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)		

# **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	
Accessories (optional)	PFA136	Junction Box	
	PFA200W	Rain Shade	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
	PFA106	Mount Adapter	
	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	

Accessories

# **Optional:**



Junction Box



Rain Shade



PFB203W Wall Mount



PFA152-E

Pole Mount





PFA106

Mount Adapter



PFM321D DC12V1A Power Adapter



PFM114 TLC SD card



LR1002-1ET/1EC

Single-port long

reach ethernet over

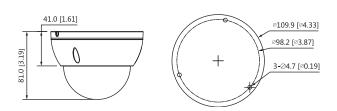
coax extender



PFM900-E Integrated Mount tester

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
-B-	3	B	
Ceiling Mount			
PFA106+PFB220C			

# Dimensions (mm[inch])



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