

DH-IPC-HDBW3241E-S

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, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · 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.

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				Bit Rate Control	CBR/VBR			
Camera				Video Bit Rate	H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps			
Image Sensor		1/2.8" 2Megapixel progressive CMOS				Day/Night	Auto(ICR)/Color/B/W	
Max. Resolution		1920 (H) ×1080 (V)				BLC	Yes	
ROM		128 MB					HLC	Yes
RAM		256 MB					WDR	120 dB
Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Gain Control	custom Auto/Manual
Min. Illumination		0.002 Lux@F1.6					Noise Reduction	3D DNR
S/N Ratio		> 56 dB					Motion Detection	OFF/ON (4 areas, rectangular)
Illumination Distance		50 m (164.0 ft)						
Illuminator On/Off Control		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
Illuminator Number		3 (IR LED)					Smart Illumination	Yes 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
Pan/Tilt/Rotation Range		Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°					Image Rotation	resolution and lower.)
Lens							Mirror	Yes
Lens Type		Fixed-focal					Privacy Masking	4 areas
Mount Type		M12					Alarm	
Focal Length		2.8 mm; 3.6 mm; 6 mm						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; scene changing; intensity change; tripwire; intrusion; SMD
Max. Aperture Field of View		F1.6 2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126° 3.6 mm: Horizontal:87°; vertical: 46°; diagonal: 104°					Alarm Event	
Iris Typo		6 mm: Horizo	ntal:54°; verti	cal: 29°; diagon	nal: 63°		Network	
Iris Type			n (2 0 ft)				Network	RJ-45 (10/100 Base-T)
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)					SDK and API	Yes
	Lens	Detect	Observe	Recognize	Identify 3.9 m		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
DOBI Distance	2.8mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	(12.8 ft)		Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
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)		Scene Self-adaptation	Yes
	6mm	82.8 m	33.1 m	16.6 m	8.3 m		User/Host	20 (Total bandwidth: 64 M)
Professional	, Intellige	(271.7 ft) (108.6 ft) (54.5 ft) (27.2 ft)			Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS		
Perimeter Protec	ction	Tripwire; intrusion (Recognition of human and vehicle)					Browser	IE: IE8, IE9, IE11 Chrome Firefox
Intelligent Search	h	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Management Software	Smart PSS, DSS, DMSS
Video							Mobile Phone	IOS; Android
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					Certification	CE-LVD: EN62368-1
Smart Codec		Smart H.265+/ Smart H.264+					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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)					Power	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Stream Capability		3 streams					Power Supply	12V DC/PoE (802.3af)
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Power Consumption	<6.9W

Wiz Sense | DH-IPC-HDBW3241E-S

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	DH-IPC-HDBW3241EP-S	2MP IR Fixed focal Dome WizSense Network Camera,PAL			
Camera	DH-IPC-HDBW3241EN-S	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			

Accessories

Optional:







PFA152-E Pole Mount



PFA200W Rain Shade



PFA106 Mount Adapter



PFB203W



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 PFA106+PFB220C			
PRAIDSPIREZOL			

Dimensions (mm[inch])



