

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) 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.

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.



Stream Capability

3 streams

Image Sensor	Technical Specification							Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF	
Target 128	Camera									
Max. Resolution	Image Sensor		1/2.8" 2Mega	apixel progress	ive CMOS			Bit Rate Control	CBR/VBR	
Scanning System	Max. Resolution		1920 (H) ×1080 (V)					Video Bit Rate	·	
Section Progressive	ROM		128 MB					Day/Night	Auto(ICR)/Color/B/W	
Min.	RAM	RAM						BLC	Yes	
Min.	Scanning Syster	m	Progressive					HLC	Yes	
Min. Illumination OLOGO Luse FLEG (PM, 208F) OLOGO Cluster FLEG (PM, 208F) OLOGO	Electronic Shut	Electronic Shutter Speed		1/3 s-1/1000	00 s			WDR	120 dB	
Motion Detection SD NR Motion Detection	Min. Illuminatio	Min. Illumination		0.0002 Lux@F1.6 (B/W, 30IRE)				White Balance		
Illumination Distance Som (16-6-01) Motion Detection Oif-f/ON (4 areas, rectangular) Motion Detection Oif-f/ON (4 areas) Smart Illumination Number 3 (R LED) Yes (4 areas) Smart Illumination Yes Mareas Pant 0"-355°, Tilt: 0"-65°, Rotation: 0"-355° Image Rotation Yes Mareas Pant 0"-355°, Tilt: 0"-65°, Rotation: 0"-355° Image Rotation Yes Mirror Yes Mir	S/N Ratio							Gain Control	Auto/Manual	
Illuminator On/Off Control Auto/Manual	Illumination Dis	stance	50 m (164.0 ft)					Noise Reduction	3D DNR	
Part Municator Number	Illuminator On/	Off Control	Auto/Manual					Motion Detection	OFF/ON (4 areas, rectangular)	
Lens	Illuminator Nun	nber						Region of Interest(RoI)	Yes (4 areas)	
Lens			Pan: 0°–355°	; Tilt: 0°–65°; I	Rotation: 0°–35	55°		Smart Illumination	Yes	
Mirror Yes			, , , , , , , , , , , , , , , , , , , ,					Image Rotation	, , , , , , , , , , , , , , , , , , , ,	
Focal Length Max. Aperture F1.6 Max. Aperture F1.6 2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126° al. 6 mm: Horizontal:367°; vertical: 46°; diagonal: 104° bl. 6 mm: Horizontal:37°; vertical: 29°; diagonal: 104° bl. 6 mm: Horizontal:37°; vertical: 29°; diagonal: 104° bl. 7	Lens Type		Fixed-focal					Mirror	Yes	
Alarm Alar	Mount Type		M12					Privacy Masking	4 areas	
Field of View Fi.6 2.8 mm; Horizontal; 106*; vertical: 57*; diagonal: 126* 3.6 mm; Horizontal; 57*; vertical: 46*; diagonal: 126* 3.6 mm; Horizontal; 57*; vertical: 29*; diagonal: 104* 6 mm; Horizontal; 54*; vertical: 29*; diagonal: 104* 6 mm; Horizontal; 54*; vertical: 29*; diagonal: 63* Network	Focal Length		2.8 mm; 3.6 mm; 6 mm							
Professional Intelligent Professional Professional Intelligent Professional	Max. Aperture		F1.6					7.1.41111	No SD card-SD card full-SD card error-less service time	
Iris Type Fixed 2.8 mm: 0.6 m (2.0 ft) 3.6 fm: 1.2 m (3.9 ft) 6 mm: 2.5 m (8.2 ft) 8.2 ft)	Field of View		3.6 mm: Horizontal:87°; vertical: 46°; diagonal: 104°					Alarm Event	of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; scene changing; intensity	
Close Focus Distance 3.6 mm; 2.5 m (8.2 ft) SDK and API Yes	Iris Type		Fixed					Network		
DORI Distance 2.8mm 38.6 m 15.4 m 7.7 m 3.9 m (126.6 ft) (50.5 ft) (25.3 ft) (12.8 ft) (18.1 ft) (72.5 ft) (36.1 ft) (18.0 ft) (18.1 ft) (72.5 ft) (36.1 ft) (18.0 ft) (18.0 ft) (18.0 ft) (18.0 ft) (19.4 ft	Close Focus Dis	tance	3.6 mm: 1.2 m (3.9 ft)						RJ-45 (10/100 Base-T)	
2.8mm (126.6 ft) (50.5 ft) (25.3 ft) (12.8 ft) DORI Distance 3.6mm 55.2 m (181.1 ft) (72.5 ft) (36.1 ft) (180.6 ft) 6mm 82.8 m (271.7 ft) (108.6 ft) (54.5 ft) (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 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 Videos Team Rate Video Frame Rate Video (180.6 ft) (25.3 ft) (12.8 ft) (13.0 ft) (1		Lens	Detect	Observe	Recognize	Identify		SDK and API	Yes	
3.6mm (181.1 ft) (72.5 ft) (36.1 ft) (18.0 ft) 6mm 82.8 m (271.7 ft) (108.6 ft) (54.5 ft) (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 Compression H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream) Smart Codec Smart H.265+/ Smart H.264+ Main stream (1920 × 1080@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) Video Frame Rate Video S2.1x in (36.1 ft) (18.0 ft) (19.0 ft) (1	DORI Distance	2.8mm						Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;	
Frofessional, Intelligent Perimeter Protection 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 Smart Codec Main stream (1920 x 1080@1–25/30 fps) Video Frame Rate San m (271.7 ft) (108.6 ft) (54.5 ft) (27.2 ft) Cyber Security Cyber Security Cyber Security Encryption; Digest; WSSE; account lockout; security logs; IP/NAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec Scene Self-adaptation (SSA) Viser/Host Storage FTP; SFTP; Micro SD Card (support max. 256 G); NAS IE: IE8, IE9, IE11 Chrome Firefox Video Frame Rate Video Frame Rate Main stream (1920 x 1080@1–25/30 fps) sub stream(704 x 576@1-25 fps/704 x 480@1–30 fps)	DOM Distance	3.6mm							Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509	
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.264B; MJPEG(only supported by sub stream) Smart Codec Smart H.265+/ Smart H.264+ Main stream (1920 × 1080@1–25/30 fps) Video Frame Rate Video Tripwire; intrusion (Recognition of human and vehicle) Interoperability Scene Self-adaptation (SSA) Ves User/Host 20 (Total bandwidth: 64 M) Storage FTP; SFTP; Micro SD Card (support max. 256 G); NAS IE: IE8, IE9, IE11 Chrome Firefox Management Software Smart PSS, DSS, DMSS		6mm						Cyber Security		
Intelligent Search Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Video Video Compression Smart Codec Smart H.265+/ Smart H.264+ Main stream (1920 × 1080@1–25/30 fps) Video Frame Rate Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos User/Host Scene Self-adaptation (SSA) Yes User/Host 20 (Total bandwidth: 64 M) Storage FTP; SFTP; Micro SD Card (support max. 256 G); NAS IE: IE8, IE9, IE11 Chrome Firefox Management Software Smart PSS, DSS, DMSS	Professiona	l, Intellige	ent						execution; trusted upgrade	
Intelligent Search intelligent search, event extraction and merging to event videos Video Video Video Compression	Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)					Interoperability		
Video Compression Video Compression H.265; H.264; H.264B; MJPEG(only supported by sub stream) Smart Codec Smart H.265+/ Smart H.264+ Main stream (1920 × 1080@1–25/30 fps) Video Frame Rate Video Frame Rate Storage FTP; SFTP; Micro SD Card (support max. 256 G); NAS IE: IE8, IE9, IE11 Chrome Firefox Management Software Smart PSS, DSS, DMSS	Intelligent Search		intelligent search, event extraction and merging to event						Yes	
Video Compression H.265; H.264; H.264B; MJPEG(only supported by sub stream) Smart Codec Smart H.265+/ Smart H.264+ Main stream (1920 × 1080@1–25/30 fps) Sub stream(704 × 576@1–25 fps/704 × 480@1–30 fps) Video Frame Rate Storage FTP; SFTP; Micro SD Card (support max. 256 G); NAS IE: IE8, IE9, IE11 Chrome Firefox Management Software Smart PSS, DSS, DMSS	Video							User/Host	20 (Total bandwidth: 64 M)	
by sub stream) Smart Codec Smart H.265+/ Smart H.264+ Main stream (1920 × 1080@1–25/30 fps) Video Frame Rate Wideo Frame Rate Smart PSS, DSS, DMSS Wanagement Software Smart PSS, DSS, DMSS	Video Compress's		H.265; H.264; H.264H; H.264B; MIPFG(only supported					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
Main stream (1920 × 1080@1–25/30 fps) Video Frame Rate Main stream (1920 × 1080@1–25/30 fps) Smart PSS, DSS, DMSS Video Frame Rate	·		by sub stream)					Browser	Chrome	
Video Frame Rate sub stream(704 × 576@1–25 fps/704 × 480@1–30 fps)	Smart Codec							Management Software		
	Video Frame Rate		sub stream(704 × 576@1–25 fps/704 × 480@1–30 fps)					Mobile Phone	IOS; Android	

Certification

Wiz Sense | DH-IPC-HDBW3241E-S

CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU Certifications FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

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 Part Number Description Type 2MP IR Fixed focal Dome WizSense DH-IPC-HDBW3241EP-S Network Camera, PAL 2MP Camera 2MP IR Fixed focal Dome WizSense DH-IPC-HDBW3241EN-S Network Camera, NTSC PFA136 Junction Box PFA200W Rain Shade PFB203W Wall Mount PFA152-E Pole Mount PFA106 Mount Adapter Accessories PFB220C Celling Mount (optional) PFM321D DC12V1A Power Adapter Single-port Long Reach Ethernet LR1002-1ET/1EC Over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:



PFA136 Junction Box



PFA152-E Pole Mount

PFM321D

DC12V1A Power

Adapter



PFA200W Rain Shade



PFA106



Mount Adapter



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



PFB203W Wall Mount



PFB220C Ceiling Mount



PFM900-F 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			

Dimensions (mm[inch])



