

DH-IPC-HDBW3441F-AS-M

4MP 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.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Stream Capability

3 streams

Technical Specification								4M (2688 × 1520); 3M (2304 × 1296); 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		1/3"4Megapixel progressive CMOS				Bit Rate Control	CBR/VBR	
Max. Resolution	xx. Resolution 2688 (H) ×1520 (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		512 MB					BLC	Yes
Scanning System		Progressive					HLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					WDR	120 dB
Min. Illumination	Min. Illumination		1.6 (Color, 30IF F1.6 (B/W, 30II ator on)	,			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
S/N Ratio	S/N Ratio						Gain Control	Auto/Manual
Illumination Dista	ance	30 m (98.4ft)					Noise Reduction	3D DNR
Illuminator On/O	off Control						Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Numb	ber	8 (IR LED)					Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rotation	n Range	Pan: -30°–30°; Tilt: 0°–80°; Rotation: 0° to 360°					Smart Illumination	Yes
Lens	Lens						Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1920×1080 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:103°; vertical: 55°; diagonal: 122° 3.6 mm: Horizontal:84°; vertical: 45°; diagonal: 100° 6 mm: Horizontal:52°; vertical: 28°; diagonal: 61°					Audio Compression	G.711a; G.711Mu; G726
Iris Type		Fixed					Alarm	
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft) 6 mm: 3.2 m (10.5 ft)					No SD card; SD card full; SD card error; less service t of SD card (smart card supports); network disconner IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scen changing; intensity change; tripwire; intrusion; SMD	
	Lens			Recognize	Identify		Network	
	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.8 ft)	5.6 m (18.4 ft)		Network	RJ-45 (10/100 Base-T)
DORI Distance	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.3 ft)		SDK and API	Yes
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4 ft)		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;
Professional,	Intellige	ent						Multicast; ICMP; IGMP; NFS; PPPoE; SNMP Video encryption; firmware encryption; configuration
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle) Work together with Smart NVR to perform refine					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
Intelligent Search		intelligent search, event extraction and merging to event videos					Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Video		U 265- U 264- U 264U- U 264D- MIDEC/anh. aunne t-					Scene Self-adaptation	Yes
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					(SSA) 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 Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)					Browser	IE: IE8, IE9, IE11 Chrome Firefox

Management Software

Smart PSS, DSS, DMSS

Wiz Sense | DH-IPC-HDBW3441F-AS-M

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)		
Gross Weight	520 g (1.1 lb)		

Ordering Information					
Туре	Part Number	Description			
4MP	DH-IPC-HDBW3441FP-AS-M	4MP IR Fixed focal Dome WizSense Network Camera,PAL			
Camera	DH-IPC-HDBW3441FN-AS-M	4MP IR Fixed focal Dome WizSense Network Camera,NTSC			
	PFA139	Junction Box			
	PFB204W	Wall Mount			
	PFA152-E	Pole Mount			
	PFB220C	Mount Adapter			
Accessories	PFA106	Celling 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









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])

