

DH-IPC-HDBW3441R-ZS

4MP IR Vari-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: 40 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.



Technical S _I	pecification	on					Bit Rate Control	CBR/VBR	
Camera							Video Bit Rate	H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps	
Image Sensor		1/3"4Megapixel progressive CMOS					Day/Night	Auto(ICR)/Color/B/W	
Max. Resolution	Max. Resolution		2688 (H) ×1520 (V)				BLC	Yes	
ROM		128 MB					HLC	Yes	
RAM		512 MB					WDR	120 dB	
Scanning Syster	Scanning System		Progressive					Auto/natural/street lamp/outdoor/manual/regional	
Electronic Shut	Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				White Balance	custom	
Min. Illuminatio	Min. Illumination		0.005 Lux@F1.5 (Color, 30IRE) 0.0005 Lux@F1.5 (B/W, 30IRE)				Gain Control Noise Reduction	Auto/Manual 3D DNR	
S/N Ratio		0 Lux (Illuminator on) > 56 dB					Motion Detection	OFF/ON (4 areas, rectangular)	
Illumination Dis	stance	40 m (131.23 ft)					Region of Interest(RoI)	Yes (4 areas)	
Illuminator On/	Off Control						Smart Illumination	Yes	
Illuminator Nun	Illuminator Number		2 (IR LED)				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)	
Pan/Tilt/Rotation	on Range	Pan: 0°–355°	; Tilt: 0°–75°; F	Rotation: 0°–35	55°		Mirror	Yes	
Lens	Lens						Privacy Masking	4 areas	
Lens Type	Lens Type		Motorized vari-focal				Alarm		
Mount Type		ф14						No SD card; SD card full; SD card error; less service time	
Focal Length Max. Aperture	-		2.7 mm-13.5 mm F1.5				Alarm Event	of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; scene changing; intensity	
			Horizontal: 104°–27°				change; tripwire; intrusion; SMD Network		
Field of View		Vertical: 55° –15° Diagonal: 124° –31°					Network	RJ-45 (10/100 Base-T)	
Iris Type		Fixed					SDK and API	Yes	
Close Focus Distance		0.8 m (2.6 ft) Detect Observe Recognize Identify					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	
DORI Distance	W T	64.0 m (210.0 ft) 222.0 m (728.3 ft)	25.6 m (84.0 ft) 88.8 m (291.3 ft)	12.8 m (42.0 ft) 44.4 m (145.7 ft)	6.4 m (21.0 ft) 22.2 m (72.8 ft)		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	
Professiona	l, Intellige	,	(===:= ::)	(= :=:: :=)	(* === *=)		Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone;	
Perimeter Prote	ection	Tripwire; intrusion (Recognition of human and vehicle)					Scene Self-adaptation (SSA)	Genetec Yes	
Intelligent Sear	ch	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					User/Host	20 (Total bandwidth: 64 M)	
V: d			videos				Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
	Video Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)				Browser	IE: IE8, IE9, IE11 Chrome Firefox	
Smart Codec		Smart H.265+/ Smart H.264+					Management Software	Smart PSS, DSS, DMSS	
		Main stream (2688 × 1520@1–25/30 fps)					Mobile Phone	IOS; Android	
Video Frame Rate		sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)					Certification	,	
Stream Capability		3 streams						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	
Resolution		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)					Certifications		

Wiz Sense | DH-IPC-HDBW3441R-ZS

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	<8.5W

Environment

Operating Conditions	-30°C to +60°C (-22°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	Φ122 mm × 88.9 mm (Φ4.8" × 3.5")
Net Weight	492 g (1.1 lb)
Gross Weight	663 g (1.5 lb)

Ordering Information Part Number Description Type 4MP IR Vari-focal Dome WizSense DH-IPC-HDBW3441RP-ZS Network Camera, PAL 4MP Camera 4MP IR Vari-focal Dome WizSense DH-IPC-HDBW3441RN-ZS Network Camera, NTSC PFA137 Junction Box PFB203W Wall Mount PFA152-E Pole Mount PFA200W Rain Shade PFA106 Mount Adapter PFB220C Celling Mount Accessories (optional) PFB200C In-Celling Mount 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:







PFA137 Junction Box

PFB203W Wall Mount





PFA200W Rain Shade

PFA106 Mount Adapter

PFB220C Celling Mount







PFB200C In-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

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA137	PFA137+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount	In-Ceiling Mount		
PFA106+PFB220C	PFB200C		

Dimensions (mm[inch])



