



DH-IPC-HDBWA241R-ZAS

2MP IR Vari-focal Dome WizMind Network Camera





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Powered by its advanced deep learning algorithms, Dahua WizMind 4 Series cameras are ahead of their time advancing functions such as perimeter protection, smart motion detection and face detection. With its Starlight sensors and large aperture lenses, cameras in this series deliver excellent image quality even in environments with low illuminance. This series is IP67-rated and IK10-rated (depending on the model) giving you the confidence and precision you are looking for in a camera.

Functions

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.

SMD 3 0

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.

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.

- 2-MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 2 MP (1920 × 1080) @50/60 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in IR LED, max. IR distance: 40 m.
- ROI, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- \cdot Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Supports the AFSA (Anti-flicker Self-adaption) function, which automatically eliminates flicker.
- · Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human); face detection.
- · Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67, IK10 protection.
- SMD 3.0













Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

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 work normally 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from comprising the device.

Technical Specification				Al Coding	Al H.265 Al H.264			
Camera					Main stream: 1920 × 1080 @ (1–50/60) fps			
Image Sensor		1/2.8" CMOS					Video Frame Rate	Sub stream 1: 704 × 576 @ (1–50 fps)/704 × 480 @ (1–60 fps) Sub stream 2: 1920 × 1080 @ (1–50/60 fps) Sub stream 3: 1280 × 720 @ (1–50/60 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity
Max. Resolution		1920 (H) × 1080 (V)						
ROM		128 MB						
RAM		512 MB					Stream Capability	4 streams
Scanning System		Progressive					,	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Resolution	720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)
Min. Illumination		0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					Bit Rate Control	CBR/VBR
S/N Ratio		>56 dB					Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
Illumination	Distance	Up to 40 m (131.23 ft)					Day/Night	Auto (ICR)/Color/B/W
Illuminator (On/Off Control	Auto/Manual					BLC	Yes
Illuminator N	Number	3 (IR LED)					HLC	Yes
Pan/Tilt/Rot	ation Range	Pan: 0°-355°,	; Tilt: 0°–80°; R	otation: 0°–35!	5°		WDR	120 dB
Lens		, ,				Scene Self-adaptation (SSA)	Yes	
Lens Type		Motorized vari-focal, Auto Focus					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Mount		ф14					Gain Control	Auto
Focal Length	1	2.7 mm-13.5 mm					Noise Reduction	3D NR
Max. Apertu	ire	F1.5					Motion Detection	OFF/ON (4 areas, rectangular)
Field of View	V	Horizontal: 109°–30° Vertical: 56° –17° Diagonal: 137° –35°					Image Stabilization	Electronic Image Stabilization (EIS)
Iris Control		Auto					Region of Interest (RoI)	Yes (4 areas)
Close Focus	Distance	0.8 m (2.62 ft)					Smart Illumination	Yes
	Lens	Detect	Observe	Recognize	Identify		Defog	Yes
DORI Distance	W	44.1 m (144.69 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)	4.4 m (14.45 ft)		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with 1920×1080 resolution and lower)
	Т	144.8 m	57.9 m	28.9 m	14.8 m		Mirror	Yes
Intelligen	CO	(475.07 ft) (189.96 ft) (94.82 ft) (48.56 ft)			Privacy Masking	4 areas		
		Tripwire, intrusion (support the classification and					Audio	
IVS (Perimet	er Protection)	accurate detection of vehicle and human)					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
SMD 3.0		Less false alarm, longer detection distance					Alarm	
Face Detection		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face or one-inch photo; 3 snapshot strategies (real-time snapshot, optimization snapshot, and quality priority); face angle filter; optimization time setting					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; defocus detection; external alarm; face detection; SMD; security exception
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Network	
Vidoo		VIGCOS					Network Port	RJ-45 (10/100 Base-T)
Video		H.265; H.264; H.264H; H.264B; MJPEG (only supported					SDK and API	Yes
Video Compression		by the sub stream) Smart H.265+				Network Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; SSL; HTTPS	
Smart Codec		Smart H.264+						

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			
User/Host	20 (Total bandwidth: 64 M)			
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS			
Browser	IE: IE11 Chrome Firefox			
Management Software	Smart PSS; DSS; DMSS			
Mobile Client	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: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14			
Port				

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5 mA 3–5 VDC
Alarm Output	1 channel out: 300 mA 12 VDC

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.3 W (12 VDC); 2.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 6.6 W (12 VDC); 7.7 W (PoE)

Environment

Operating Temperature	$-30~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–22 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}) / \text{Less than 95\% RH}$	
Storage Temperature	-40°C to +60°C (-40°F to 140°F)	
Protection	IP67; IK10	

Structure

Casing	Metal
Product Dimensions	94 mm × Φ122 mm (3.7" × Φ4.8")
Net Weight	713 g (1.57 lb)
Gross Weight	986 g (2.02 lb)

Ordering Information				
Туре	Model	Description		
2MP Camera	DH-IPC-HDBWA241RP- ZAS-27135	2MP IR Vari-focal Dome WizMind Network Camera		
	PFA137	Junction Box Bracket		
	PFA109	Mount Adapter		
	PFB220C	Ceiling Mount Bracket		
	PFB206W	Wall Mount		
Accessories (Optional)	PFA152-E	Pole Mount		
(Optional)	PFM321D	12 VDC 1 A Power Adapter		
	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender		
	PFM900-E	Integrated Mount Tester		
	TF-P100	TLC SD Card		

Accessories

Optional:







PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



PFM321D 12 VDC 1 A Power Adapter



PFB206W Wall Mount



PFA152-E Pole Mount



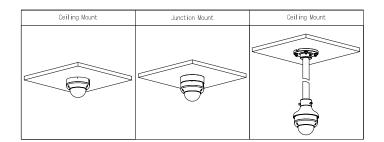
LR1002-1ET/1EC Single-port Long Reach Ethernet Over Coax Extender



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card



Dimensions (mm[inch])

