



DH-IPC-HDW8341X-3D-S2

3MP WizMind Dual-Lens 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

Series Overview

Equipped with advanced chip and fast lens, Dahua WizMind Dual-Lens series network camera provides excellent image effects. With advanced deep learning algorithm, the camera supports various intelligent functions, such as people counting, queue management, stereo analysis, perimeter protection and face detection, which provides better intelligent apllication solutions based on scenes.

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.

Starlight

Dahua Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

ePoE

Dahua ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

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.

- •3MP, 1/2.8" CMOS image sensor, low illuminance, high image
- •Outputs max. 3MP (2048 × 1536) @30 fps
- •ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · People counting: Queue management, people counting in area, entry/ exit number counting, and it can output daily/monthly/yearly report
- · Alarm: 2 in, 2 out; audio: 2 in, 1 out; 485; BNC; supports max. 256 G
- · Micro SD card, built-in Mic and speaker. Siren active deterrence, builtin 8 voices, and user can import custom voices.
- 12V DC/PoE power supply
- IP67, IK10 protection













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.

People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

In Area No.

With advanced stereo image technology and deep leaning algorithm, Dahua In Area No. technology recognizes human targets accurately to count people in area in real-time. You can set people quantity threshold, when the number larger or smaller than the threshold, it triggers linkage. It is applicable in the scene that has limit on people quantity.

Queue Management

With advanced image processing technology and deep leaning algorithm, Dahua Queue Management technology counts people quantity in selected area in real time to realize queue management. It supports multiple polygon areas. When No. in area/strand time is not smaller or not larger than the threshold, it triggers alarm.

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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera

	4/2 0//214
Image Sensor	1/2.8"3Megapixel progressive CMOS
Max. Resolution	2048 (H) × 1536 (V)
ROM	4 GB
RAM	2 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	20 m (IR) (65.6 ft) (IR LED)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	1 (IR LED)
Pan/Tilt/Rotation Range	Tilt: 0°-70°

Lens

Lens Type

Mount Type		M12				
Focal Length		2.8 mm; 3.6 r	2.8 mm; 3.6 mm			
Max. Aperture		2.8 mm: F1.6 3.6 mm: F1.6				
Field of View		2.8 mm: Horizontal 96° × Vertical 70° × Diagonal 128° 3.6 mm: Horizontal 79° × Vertical 57° × Diagonal 104°				
Iris Type		Fixed				
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.3 m (4.3 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8mm	44.8 m (147 ft)	17.9 m (58.7 ft)	9.0 m (29.5 ft)	4.5 m (14.8 ft)	
	3 6mm	64.0 m	25.6 m	12.8 m	6.4 m	

Fixed-focal

Smart Event

IVS Abandoned object; missing object

(210.0 ft)

Professional, intelligent

3.6mm

IVS (Perimeter Protection)

Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human), loitering detection, people gathering, parking detection

(84.0 ft)

(42.0 ft)

reports. Support queue management, and displaying and outputting yearly/monthly/weekly/daily reports. Support 4 tripwire rule configuration, people counting in 4 areas, and 4 queue managements. Work together with Smart NVR to perform refine	Face Detection	Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 5 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, surprise), mask, beard; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting
Intelligent Search intelligent search, event extraction and merging to event videos. Video Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+ Main stream: 3MP (1-25/30 fps) Sub stream: D1 (1-25/30 fps) Sub stream: D1 (1-25/30 fps) Fourth stream: 2MP (1-25/30 fps) Fifth stream: D1 (1-25/30 fps) Fifth st	People Counting	area, and displaying and outputting yearly/monthly/daily reports. Support queue management, and displaying and outputting yearly/monthly/weekly/daily reports. Support 4 tripwire rule configuration, people counting in
Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.264+ Smart H.265+ Main stream: 3MP (1-25/30 fps) Sub stream: D1 (1-25/30 fps) Fourth stream: 2MP (1-25/30 fps) Fourth stream: D1 (1-25/30 fps) Fourth stream: D1 (1-25/30 fps) Fifth stream: D1 (1-25/30 fps) Stream Capability 5 streams Resolution 3M (2048 × 1536); 1080p (1920 × 1080); 720p (1280 × 720); 61/704 × 480 (VGA) Bit Rate Control CBR/VBR Video Bit Rate H.265: 3 kbps-17664 kbps H.265: 3 kbps-17664 kbps H.265: 3 kbps-17664 kbps Day/Night Auto (ICR)/Color/B/W BLC Yes WDR DWDR White Balance Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Defog Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Intelligent Search	intelligent search, event extraction and merging to event
Smart Codec Smart H.264+ Smart H.265+ Smart H.265+ Smart H.265-1 Video Frame Rate Main stream: 3MP (1–25/30 fps) Sub stream: D1 (1–25/30 fps) Fourth stream: 2MP (1–25/30 fps) Fourth stream: 2MP (1–25/30 fps) Fourth stream: D1 (1–25/30 fps) Fifth stream: D1 (1–25/30 fps) Fifth stream: D1 (1–25/30 fps) Stream Capability 5 streams Resolution 3M (2048 × 1536); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); 640 × 480 (VGA) Bit Rate Control CBR/VBR Video Bit Rate H.264: 3 kbps-17664 kbps H.265: 3 kbps-17664 kbps Day/Night Auto (ICR)/Color/B/W BLC Yes HLC Yes WDR DWDR White Balance Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (RoI) Yes (4 areas) Smart Illumination Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Video	
Smart LodecSmart H.265+Video Frame RateMain stream: 3MP (1–25/30 fps) Sub stream: D1 (1–25/30 fps) Third stream: 2MP (1–25/30 fps) Fourth stream: 2MP (1–25/30 fps) Fourth stream: 2MP (1–25/30 fps) Fifth stream: D1 (1–25/30 fps) Fifth stream: D1 (1–25/30 fps) Fifth stream: D1 (1–25/30 fps)Stream Capability5 streamsResolution3M (2048 × 1536); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); 640 × 480 (VGA)Bit Rate ControlCBR/VBRVideo Bit RateH.264: 3 kbps–17664 kbps H.265: 3 kbps–17664 kbps H.265: 3 kbps–17664 kbpsDay/NightAuto (ICR)/Color/B/WBLCYesWDRDWDRWhite BalanceAuto/natural/street lamp/outdoor/manual/regional customGain ControlAuto/ManualNoise Reduction3D NRMotion DetectionOFF/ON (4 areas, rectangular)Region of Interest (Rol)Yes (4 areas)Smart IlluminationYesPrivacy Masking4 areasAudioAudioBuilt-in MICYesAudio CompressionG.711a; G.711Mu; G.726; G.723	Video Compression	
Video Frame Rate Sub stream: D1 (1–25/30 fps) Fourth stream: 2MP (1–25/30 fps) Fourth stream: 2MP (1–25/30 fps) Fifth stream: D1 (1–25/30 fps) Stream Capability 5 streams Resolution 720): D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); 640 × 480 (VGA) Bit Rate Control CBR/VBR Video Bit Rate H.264: 3 kbps-17664 kbps H.265: 3 kbps-17664 kbps H.265: 3 kbps-17664 kbps Day/Night Auto (ICR)/Color/B/W BLC Yes WDR DWDR DWDR White Balance Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Defog Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Smart Codec	
Resolution 3M (2048 × 1536); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); 640 × 480 (VGA) Bit Rate Control CBR/VBR Video Bit Rate H.264: 3 kbps-17664 kbps H.265: 3 kbps-17664 kbps Day/Night Auto (ICR)/Color/B/W BLC Yes WDR DWDR White Balance Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (RoI) Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Video Frame Rate	Sub stream: D1 (1–25/30 fps) Third stream: 2MP (1–25/30 fps) Fourth stream: 2MP (1–25/30 fps)
Resolution 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); 640 × 480 (VGA) Bit Rate Control CBR/VBR Video Bit Rate H.264: 3 kbps-17664 kbps H.265: 3 kbps-17664 kbps BLC Yes HLC Yes WDR DWDR White Balance Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes Privacy Masking 4 areas Audio Built-in MIC Audio Compression CBR/VBR H.264: 3 kbps-17664 kbps H.265: 3 kbps-17664 kbps Auto (ICR)/Color/B/W Auto (ICR)/Color/B/W	Stream Capability	5 streams
Video Bit Rate H.264: 3 kbps—17664 kbps H.265: 3 kbps—17664 kbps Day/Night Auto (ICR)/Color/B/W BLC Yes HLC Yes WDR DWDR White Balance Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Resolution	720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 ×
Day/Night Auto (ICR)/Color/B/W BLC Yes HLC Yes WDR DWDR White Balance Gain Control Auto/Manual Noise Reduction Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes Privacy Masking Auto/ Au	Bit Rate Control	CBR/VBR
BLC Yes HLC Yes WDR DWDR Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Defog Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Video Bit Rate	
HLC WDR DWDR Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Day/Night	Auto (ICR)/Color/B/W
WDR DWDR Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Defog Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression Auto/Manual Auto/Manual Auto/Manual Yes OFF/ON (4 areas, rectangular) Yes 4 areas Audio G.711a; G.711Mu; G.726; G.723	BLC	Yes
White Balance Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Defog Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	HLC	Yes
Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (RoI) Yes (4 areas) Smart Illumination Yes Defog Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	WDR	DWDR
Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (RoI) Yes (4 areas) Smart Illumination Yes Defog Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression 3D NR Yes (4 areas, rectangular) Yes (5 (4 areas) Yes A areas A areas Audio	White Balance	The state of the s
Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (RoI) Yes (4 areas) Smart Illumination Yes Defog Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Gain Control	Auto/Manual
Region of Interest (RoI) Yes (4 areas) Smart Illumination Yes Defog Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Noise Reduction	3D NR
Smart Illumination Yes Defog Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Motion Detection	OFF/ON (4 areas, rectangular)
Defog Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Region of Interest (RoI)	Yes (4 areas)
Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Smart Illumination	Yes
Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Defog	Yes
Built-in MIC Yes Audio Compression G.711a; G.711Mu; G.726; G.723	Privacy Masking	4 areas
Audio Compression G.711a; G.711Mu; G.726; G.723	Audio	
·	Built-in MIC	Yes
Built-in Speaker Yes	Audio Compression	G.711a; G.711Mu; G.726; G.723
	Built-in Speaker	Yes



Alarm

Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; people counting in area; stay alarm; people counting; people counting exception detection; safety exception

Network

Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
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
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; SAMBA; PPPoE; 802.1x; SNMP; Bonjour
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P; RTMP
User/Host	20
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE9; IE11; FireFox; Chrome
Management Software	Smart PSS; DSS; NVR; IVSS
Mobile Phone	IOS; Android

Certification

Certification	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
---------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Port

RS-485	1 (baud rate range: 1200 bps–115200 bps)
Audio Input	2 channels (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	2 channels in: 5mA 3V–5V DC
Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V DC

Power

Power Supply	12V DC/PoE; ePoE	
Power Consumption	Basic power consumption: 3.5W (12V DC); 4.4W (PoE) Max. power consumption (ICR switch + IR full intensity + WDR + Intelligent functions enabled): 9.1W (12V DC); 10.6W (PoE)	

Environment

Operating Conditions	-40°C to +60°C/Less than 95% RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Ingress Protection	IP67; IK10

Structure

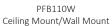
Casing	Metal
Dimensions	204.0 mm × 78.0 mm × 61.5 mm (8.0" × 3.1" × 2.4") (L × W × H)
Net Weight	0.81 kg (1.8 lb)
Gross Weight	1.19 kg (2.6 lb)

Ordering Information			
Туре	Part Number	Description	
	DH-IPC-HDW8341XP-3D-S2	3MP WizMind Dual-Lens Network Camera, PAL	
3МР	IPC-HDW8341XP-3D-S2	3MP WizMind Dual-Lens Network Camera, PAL	
Camera	DH-IPC-HDW8341XN-3D-S2	3MP WizMind Dual-Lens Network Camera, NTSC	
	IPC-HDW8341XP-3D-S2	3MP Eyeball Network Camera, NTSC	
Accessories	PFB110W	Ceiling Mount/Wall Mount	
(Optional)	PFA152-E	Pole Mount	

Accessories

Optional



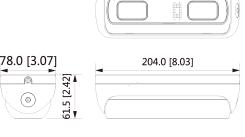


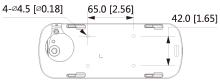


PFA152-E Pole Mount

Ceiling Mount	Pole Mount	Ceiling Mount
PFB110W	PFA152-E	

Dimensions (mm [inch])





Rev 001.001

 $\mathbb O$ 2021 Dahua . All rights reserved. Design and specifications are subject to change without notice Pictures in the document are for reference only, and the actual product shall prevail.

