

DH-IPC-HDBW5441E-ZE-HDMI

4MP IR Vari-focal Vandal-proof Dome WizMind Network Camera



Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,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

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

Functions

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4MP (2688×1520) @25/30 fps.
- Built-in IR LED, and the max. illumination distance is 40 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports: video metadata, IVS, face detection, smart object detection, and people counting, etc.
- Alarm: 2 in, 1 out; audio: 1 in, 1 out; supports max. 512 GB Micro SD card, built-in MIC.
- 12 VDC/PoE power supply; ePoE.
- IP67 and IK10 protection.
- Supports HDMI 1.4a and outputs a max resolution of 2560 × 1440@25/30 fps through the HDMI port. The max frame rate supported for 1080p and 720p is 50/60 fps.
- Features HDMI self-adaptation, which automatically adjusts the output resolution based on the max resolution supported by both the camera and the display.
- SMD 3.0.



Heat Map

Dahua heat map technology is used to display the crowd density and people appearance probability. Display the crowd status by different colors. Generally, the crowd status is the statistics of people quantity in space and time dimensions.

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 compromising 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 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification

Camera					
Image Sensor		1/2.9" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		256 MB			
RAM		1 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		Up to 40 m (131.23 ft) (IR)			
Illuminator On/Off Control		Auto;Manual;Zoomprio			
Illuminator Number		3 (IR LED)			
Angle Adjustment		Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°			
Lens					
Lens Type		Motorized vari-focal			
Lens Mount		ф14			
Focal Length		2.7 mm-13.5mm			
Max. Aperture	2	F1.6			
Field of View		H: 104°–29°; V: 54°–16°; D: 125°–34°			
Iris Control		Auto			
Close Focus D	istance	0.1 m (0.33 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	64.0 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)
	т	210.0 m (688.98 ft)	84.0 m (275.59 ft)	42.0 m (137.80 ft)	21.0 m (68.90 ft)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project docing tool				

Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection	
Smart Object Detection	Smart abandoned object; smart missing object	
SMD	SMD 3.0	
AcuPick	Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.	

and commissioning manual/project design tool.

Face Detection	Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face snapshot enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.		
People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/week/month/ year); 4 rules can be set for tripwire, people counting in area and queue management.		
Heat Map	Yes		
Video Metadata	Motor vehicle, non-motor vehicle, face, and human body detection; snapshot; snapshot optimization; optimal face snapshot upload. Extraction of motor vehicle and non-motor vehicle attributes: extracts 6 attributes for motor vehicle and 6 attributes for non- motor vehicle Extraction of face and human body attributes: extracts 6 attributes for face and 8 attributes for human body.		
Video			
Video Compression	H.265;H.264;H.264H;H.264B;MJPEG (Only supported by sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
AI Coding	AI H.265; AI H.264		
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: 1920 × 1080@(1–25/30 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.		
Stream Capability	3 streams		
Resolution	4M (2688 × 1520/2560 × 1440); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Bit Rate Control	VBR;CBR		
Video Bit Rate	H.264: 3 kbps–16384 kbps; H.265: 3 kbps–16384 kbps		
HDMI Output	2560 × 1440@25/30 fps; 1920 × 1080@25/30/50/60 fps; 1280 × 720@25/30/50/60 fps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene Self-adaptation (SSA)	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 (RoI)	Yes (4 areas)		
Image Stabilization	Electronic Image Stabilization (EIS)		

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DefogYesImage RotationYesMirrorYesPrivacy Masking4 areasLDCYesAudioExelAudioCompressionAudio CompressionCM(s.C.111a, G.711MU; G.72c; G.723AlarmNo SD card; SD card full; SD card error; network disconnection; IP conflict; Illegal access; motion advection; yub conflict; Illegal access; motion detection; yub conflict; Illegal access; motio	Smart Illumination	Yes	
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Audio Input 1 channel (RCA port) Audio Output 1 channel (RCA port)	Port		
Audio Output 1 channel (RCA port)	HDMI	HDMI 1.4a, type A, female plug	
	Audio Input	1 channel (RCA port)	
Alarm Input 2 channels in: wet contact, 5 mA 3–5 VDC	Audio Output	1 channel (RCA port)	
	Alarm Input	2 channels in: wet contact, 5 mA 3–5 VDC	

Alarm Output	1 channel out: wat contact 200 mA 12 VDC		
	1 channel out: wet contact, 300 mA 12 VDC		
Power			
Power Supply	12 VDC; PoE (802.3af); ePoE		
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.		
Power Consumption	Basic: 3.6 W (12 VDC), 4.7 W (PoE); Max.: 8.3 W (12 VDC), 8.8 W (PoE) (H.265+ WDR+ Intelligence on+IR on)		
Environment			
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)		
Operating Humidity	≤95% (RH), non-condensing		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Storage Humidity	≤95% (RH), non-condensing		
Protection	IP67; IK10		
Structure			
Casing Material	Metal		
Product Dimensions	Φ159.1 mm × 118.1 mm (6.26" × Φ4.65")		
Net Weight	0.92 kg (2.03 lb)		
Gross Weight	1.22 kg (2.69 lb)		

Ordering Information

Туре	Model	Description
IP CAMERA	DH-IPC-HDBW5441E-ZE- HDMI	4MP IR Vari-focal Vandal- proof Dome WizMind Network Camera
	DH-PFB300C	Ceiling Mount Bracket
	DH-PFA101	Mount adapter
	DH-PFB302S	Wall mount bracket
	DH-PFA151	Corner mount bracket
	G3416GW	G3/4" Water Joint
	DH-PFA150	Pole Mount Bracket
	DH-PFB211W	Wall mount bracket
Accessories (Optional)	DH-PFA152-E	Pole Mount Bracket
	DH-PFA138	Junction Box
	DH-PFB201C	In-Ceiling Mount Bracket
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM321D-EN	DC12V 1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester
	DHI-TF-P100/512GB	MicroSD Card

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Accessories

Optional:



DH-PFB300C Ceiling Mount Bracket



DH-PFA151 Corner mount bracket



DH-PFA101 Mount adapter



G3416GW G3/4" Water Joint



DH-PFB211W DH-PFA152-E Wall mount bracket Pole Mount Bracket



DH-PFB201C In-Ceiling Mount Bracket DC12V1A power adapter DC12V 1A power adapter

DH-PFM320D-EN

DC12V2A power adapter

DH-PFM321-EN





DH-PFA138

Junction Box

DH-PFB302S

Wall mount bracket

DH-PFA150

Pole Mount Bracket

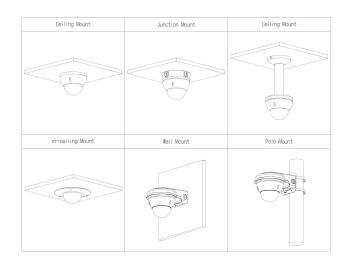
DH-PFM321D-EN





PFM900-E Integrated Mount Tester





Dimensions (mm[inch])

