

DH-IPC-HUM8441-E1-L1

4MP Covert Pinhole WizMind Network Camera-KIT



Wiz Mind

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

With deep learning algorithm, the separate pinhole camera supports functions such as perimeter protection. Working with different types of lenses, the camera is widely applied to hidden or small scenes such as banks and advertising screens, meeting requirements in different installation 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.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

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.

- Starlight 4MP 1/2.7" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 4MP (2688 × 1520)@25/30 fps.
- H.265 codec, high compression ratio, and ultra-low bit rate.
- ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); smart abandoned object, smart missing object, loitering detection, people gathering, and face detection.
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card space warning, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 2 in, 2 out; audio: 1 in, 1 out; RS-232; max. 256 G Micro SD card.
- 12V DC/PoE power supply facilitates installation.
- The Network Camera Main Box connects to the lens through the included 8 m coaxial cable.
- Power on after connecting the lens to the back-end device; otherwise the device might be damaged.



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.

Face Attributes

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

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.

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Technical Specification

Camera					
Image Sensor		1/2.7″ CMOS			
Max. Resolution		2688 (H) × 1520(V)			
ROM		128 MB			
RAM		1 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.005 Lux@F2.0 (Color,30 IRE) 0.0005 Lux@F2.0 (B/W,30 IRE)			
S/N Ratio		>56 dB			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm			
Max. Aperture		2.8 mm: F2.0			
Field of View		Horizontal: 101°; Vertical: 57°; Diagonal: 115°			
Iris Control		Fixed			
Close Focus Distance		0.8 m			
DORI	Len	Detect	Observe	Recognize	Identify
	IPC- HUM8441- L1	61 m (200.1 ft)	24.4 m (80.1 ft)	12.2 m (40.0 ft)	6.1 m (20.0 ft)
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system				

*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 design tool.

Intelligence

IVS (Perimeter Protection)	Tripwire, intrusion, 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			
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attribute extraction including 6 attributes (gender, age, glasses, expressions, mask and beard) and 8 expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear); 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			
Smart Search	Work together with Smart NVR to perform refine 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+ Smart H.264+			

	Main stream, 2000 x 1520 @25/20 fr-		
Video Frame Rate	Main stream: 2688 × 1520 @25/30 fps Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps Third stream: 1920 × 1080 @25/30 fps		
Stream Capability	3 streams		
Resolution	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536);1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps		
Day/Night	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	Manual; auto		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Defog	Yes		
Image Rotation	0°/90°/180°/270° (support 90°/270° with 1080p resolution and lower)		
Mirror	Yes		
Mirror Privacy Masking	Yes 4 areas		
Privacy Masking			
Privacy Masking Audio	4 areas		
Privacy Masking Audio Audio Compression	4 areas		
Privacy Masking Audio Audio Compression Alarm	4 areas G.711a; G.711Mu; PCM; G.726; G.723 No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, fast moving, missing object, abandoned object, parking detection, loitering detection, people gathering; scene changing, audio detection, voltage detection, external		
Privacy Masking Audio Audio Compression Alarm Alarm Event	4 areas G.711a; G.711Mu; PCM; G.726; G.723 No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, fast moving, missing object, abandoned object, parking detection, loitering detection, people gathering; scene changing, audio detection, voltage detection, external		
Privacy Masking Audio Audio Compression Alarm Alarm Event Network	4 areas G.711a; G.711Mu; PCM; G.726; G.723 No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, fast moving, missing object, abandoned object, parking detection, loitering detection, people gathering; scene changing, audio detection, voltage detection, external alarm, face detection , and security exception		
Privacy Masking Audio Audio Compression Alarm Alarm Event Network Network Port	4 areas G.711a; G.711Mu; PCM; G.726; G.723 No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, fast moving, missing object, abandoned object, parking detection, loitering detection, people gathering; scene changing, audio detection, voltage detection, external alarm, face detection , and security exception		
Privacy Masking Audio Audio Compression Alarm Alarm Alarm Event Network Network Port SDK and API	4 areas G.711a; G.711Mu; PCM; G.726; G.723 No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, fast moving, missing object, abandoned object, parking detection, loitering detection, people gathering; scene changing, audio detection, voltage detection, external alarm, face detection , and security exception RJ-45 (10/100 Base-T) Yes IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPNP; NTP;		
Privacy Masking Audio Audio Compression Alarm Alarm Event Network Network SDK and API Network Protocol	4 areas G.711a; G.711Mu; PCM; G.726; G.723 No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, fast moving, missing object, abandoned object, parking detection, loitering detection, people gathering; scene changing, audio detection, voltage detection, external alarm, face detection , and security exception RJ-45 (10/100 Base-T) Yes 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 ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone;		
Privacy Masking Audio Audio Compression Alarm Alarm Event Network Network SDK and API Network Protocol Interoperability	4 areas G.711a; G.711Mu; PCM; G.726; G.723 No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, fast moving, missing object, abandoned object, parking detection, loitering detection, people gathering; scene changing, audio detection, voltage detection, external alarm, face detection , and security exception RJ-45 (10/100 Base-T) Yes 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 ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec		
Privacy Masking Audio Audio Compression Alarm Alarm Event Network Network SDK and API SDK and API Interoperability User/Host	4 areas G.711a; G.711Mu; PCM; G.726; G.723 No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, fast moving, missing object, abandoned object, parking detection, loitering detection, people gathering; scene changing, audio detection, voltage detection, external alarm, face detection , and security exception RJ-45 (10/100 Base-T) Yes 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 ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec 20 (Total bandwidth: 64 M)		
Privacy Masking Audio Audio Compression Alarm Alarm Event Network Network SDK and API SDK and API Interoperability User/Host Storage	4 areas G.711a; G.711Mu; PCM; G.726; G.723 No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, fast moving, missing object, abandoned object, parking detection, loitering detection, people gathering; scene changing, audio detection, voltage detection, external alarm, face detection , and security exception RJ-45 (10/100 Base-T) Yes 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 ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec 20 (Total bandwidth: 64 M) FTP; SFTP; Micro SD card (Support max. 256 G); NAS IE: IE8, IE9, and IE11 Chrome		

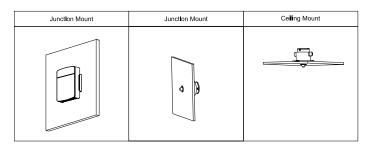
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Cyber SecurityVideo encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; pYMAC filtering; Generation and importing of X.509 extition; sysleg; HTTPS; 802.1x; Trusted boot; Trusted boot.x; Trusted boot.x; Trusted boot.x; Trusted boot.x; Trusted boot.x; Tr	Mobile Client	IOS; Android	
CertificationsCE-LVD:EN62368-1; CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU; FCC:47 CFR FCC Part 15, Subpart BPortAudio Input1 channel (3.5 mm JACK port)Audio Output1 channel (3.5 mm JACK port)Audio Output2 channels in: 5 mA 3V–5V DCAlarm Nuput2 channels out: 1,000 mA 30V DC/500mA 50V DCPower2000 mail 2000 mailPower12V DC/PoE (802.3af)Power Supply12V DC/PoE (802.3af)Power Supply383ic: 2.4W (12V DC); 3W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (PoE)Power ConsumptionBasic: 2.4W (12V DC); 3W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (PoE)Operating Temperature-40°C to +60°C (-40°F to 140°F)Operating Temperature-40°C to +60°C (-40°F to 140°F)StructureEisingMetalProduct DimensionsEising max 24 mm (4.33" x 3.27" x 0.94") Li: 430.5 mm x 48.7 mm (41.20" x 1.92")Net Weight20 g (0.5 lb)	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	
CertificationsCE-EMC:Electromagnetic Compatibility Directive 2014/30/EU; FCC:47 CFR FCC Part 15, Subpart BPortAudio Input1 channel (3.5 mm JACK port)Audio Output1 channel (3.5 mm JACK port)Audio Output2 channels in: 5 mA 3V–5V DCAlarm Input2 channels out: 1,000 mA 30V DC/500mA 50V DCAlarm Output2 channels out: 1,000 mA 30V DC/500mA 50V DCPower2V DC/POE (802.3af)Power Supply12V DC/POE (802.3af)Power ConsumptionBasic: 2.4W (12V DC); 3W (POE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (PoE)Poperating Temperature-40°C to +60°C (-40°F to 140°F)Operating Temperature55%Structure-40°C to +60°C (-40°F to 140°F)CasingMetalProduct DimensionsE1: 110 mm × 83 mm × 24 mm (4.33" * 3.27" × 0.94") 	Certification		
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Audio OutputI channel (3.5 mm JACK port)Alarm Input2 channels in: 5 mA 3V–5V DCAlarm Output2 channels out: 1,000 mA 30V DC/500mA 50V DCPower2 channels out: 1,000 mA 30V DC/500mA 50V DCPower12V DC/PoE (802.3af)Power Supply12V DC/PoE (802.3af)Dual Power BackupWhen 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 ConsumptionBasic: 2.4W (12V DC); 3W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (PoE)Poreating Temperature-40°C to +60°C (-40°F to 140°F)Operating Humidity95%Structure-40°C to +60°C (-40°F to 140°F)StructureMetalProduct DimensionsMetalProduct Dimensions11: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") 1: # 30.5 mm × 48.7 mm (ф1.20" × 1.92")Net Weight10 g (0.5 lb)	Port		
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Alarm Output2 channels out: 1,000 mA 30V DC/500mA 50V DCPower22 channels out: 1,000 mA 30V DC/500mA 50V DCPower12V DC/PoE (802.3af)Power Supply12V DC/PoE (802.3af)Dual Power BackupWhen 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 ConsumptionBasic: 2.4W (12V DC); 3W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (PoE)Environment-40°C to +60°C (-40°F to 140°F)Operating Temperature-40°C to +60°C (-40°F to 140°F)Storage Temperature-40°C to +60°C (-40°F to 140°F)StructureStructureCasingMetalProduct DimensionsE1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L1: 930.5 mm × 48.7 mm (Ф1.20" × 1.92")Net Weight210 g (0.5 lb)	Audio Output	1 channel (3.5 mm JACK port)	
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Power Supply12V DC/PoE (802.3af)Dual Power BackupWhen 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 ConsumptionBasic: 2.4W (12V DC); 3W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (PoE)Environment-40°C to +60°C (-40°F to 140°F)Operating Temperature-40°C to +60°C (-40°F to 140°F)Storage Temperature-40°C to +60°C (-40°F to 140°F)StructureEnvironmentCasingMetalProduct DimensionsE1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") Li: \$0.5 mm × 48.7 mm (\$1.20" × 1.92")Net Weight210 g (0.5 lb)	Alarm Output	2 channels out: 1,000 mA 30V DC/500mA 50V DC	
NumberNumberDual Power BackupWhen 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 ConsumptionBasic: 2.4W (12V DC); 3W (POE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (POE)Environment-40°C to +60°C (-40°F to 140°F)Operating Temperature-40°C to +60°C (-40°F to 140°F)Operating Humidity≤95%Storage Temperature-40°C to +60°C (-40°F to 140°F)Structure-40°C to +60°C (-40°F to 140°F)StructureStructureCasingMetalProduct DimensionsE1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L1: 030.5 mm × 48.7 mm (01.20" × 1.92")Net Weight210 g (0.5 lb)	Power		
Dual Power Backupthe same time, disconnect one of them. The device will continue to work, but will not restart.Power ConsumptionBasic: 2.4W (12V DC); 3W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (PoE)Environment-Operating Temperature-40°C to +60°C (-40°F to 140°F)Operating Humidity>95%Storage Temperature-40°C to +60°C (-40°F to 140°F)Structure-CasingMetalProduct DimensionsE1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L: 90.5 mm × 48.7 mm (Φ1.20" × 1.92")Net Weight210 g (0.5 lb)	Power Supply	12V DC/PoE (802.3af)	
Power Consumption Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (PoE) Environment Operating Temperature -40°C to +60°C (-40°F to 140°F) Operating Humidity >95% Storage Temperature -40°C to +60°C (-40°F to 140°F) Structure -40°C to +60°C (-40°F to 140°F) Casing Metal Product Dimensions E1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L1: 930.5 mm × 48.7 mm (Ф1.20" × 1.92") Net Weight 210 g (0.5 lb)	Dual Power Backup	the same time, disconnect one of them. The device will	
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Operating Humidity ≤95% Storage Temperature -40°C to +60°C (-40°F to 140°F) Structure Casing Product Dimensions E1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L1: Φ30.5 mm × 48.7 mm (Φ1.20" × 1.92") Net Weight 210 g (0.5 lb)	Environment		
Storage Temperature -40°C to +60°C (-40°F to 140°F) Structure Casing Metal Product Dimensions E1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L1: Φ30.5 mm × 48.7 mm (Φ1.20" × 1.92") Net Weight 210 g (0.5 lb)	Operating Temperature	-40°C to +60°C (-40°F to 140°F)	
Structure Metal Product Dimensions E1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L1: Φ30.5 mm × 48.7 mm (Φ1.20" × 1.92") Net Weight 210 g (0.5 lb)	Operating Humidity	≤95%	
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Product Dimensions E1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L1: Φ30.5 mm × 48.7 mm (Φ1.20" × 1.92") Net Weight 210 g (0.5 lb)	Structure		
Product Dimensions L1: Φ30.5 mm × 48.7 mm (Φ1.20" × 1.92") Net Weight 210 g (0.5 lb)	Casing	Metal	
	Product Dimensions		
Gross Weight 376 g (0.8 lb)	Net Weight	210 g (0.5 lb)	
	Gross Weight	376 g (0.8 lb)	

Ordering Information

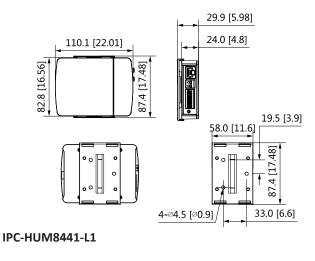
Туре	Model	Description
Main Box	DH-IPC-HUM8441-E1	4MP Covert Pinhole WizMind Network Camera-Main Box
Len	IPC-HUM8441-L1	4MP Covert Pinhole WizMind Network Camera-Len Unit

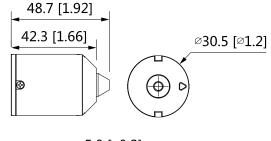
Installation



Dimensions (mm[inch])

DH-IPC-HUM8441-E1





Ø5.0 [Ø0.2] ð

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