

DH-IPC-HUM8441-E1

4MP Covert Pinhole WizMind Network Camera-Main Box



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 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- ROI, SMART H.264+/H.265+, AI 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, video tampering, scene changing, audio detection, no SD card, SD card full, 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.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection (L3).
- Multiple lens unit optional; require a lens unit to work together.



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 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.

Wiz Mind | DH-IPC-HUM8441-E1

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@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE)			
S/N Ratio		>56 dB			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm			
Max. Aperture		L1/L4/L5: F2.0 L3: F1.6			
Field of View		L1: Horizontal: 101°; Vertical: 57°; Diagonal: 115° L3: Horizontal: 102°; Vertical: 54°; Diagonal: 121° L4: Horizontal: 101°; Vertical: 57°; Diagonal: 115° L5: Horizontal: 105°; Vertical: 56°; Diagonal: 122°			
Iris Control		Fixed			
Close Focus Distance		0.8 m			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	L1/L4-2.8 mm	61.0 m (200.13 ft)	24.4 m (80.05 ft)	12.2 m (40.03 ft)	6.1 m (20.01 ft)
	L3-2.8 mm	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (21.00 ft)
	L5-2.8 mm	62.2 m (204.07 ft)	24.9 m (91.69 ft)	12.4 m (40.68 ft)	6.2 m (20.34 ft)
	*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)	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	
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); 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	
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	

Video H.265; H.264; H.264H; H.264B; MJPEG (Only supported Video Compression by the sub stream) Smart H.265+;Smart H.264+ Smart Codec Main stream: 2688 × 1520 @25/30 fps Video Frame Rate Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps Third stream: 1920 × 1080 @25/30 fps Stream Capability 3 streams 4M (2688 × 1520); 3.6M (2056 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p Resolution (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Bit Rate Control CBR/VBR H.264: 3 kbps-20480 kbps; Video Bit Rate H.265: 3 kbps-20480 kbps Day/Night Color/B/W BLC Yes HLC Yes WDR 120 dB Scene Self-adaptation Yes (SSA) Auto; natural; street lamp; outdoor; manual; regional White Balance custom Gain Control Auto; Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (RoI) Yes (4 areas) Defog Yes 0°/90°/180°/270° (Support 90°/270° with 2688×1520 Image Rotation resolution and lower) Mirror Yes Privacy Masking 8 areas Audio Audio Compression G.711a; G.711Mu; PCM; G.726; G.723; PCM Alarm No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast Alarm Event moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; security exception Network Network Port RJ-45 (10/100 Base-T) SDK and API Yes IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; Network Protocol 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; Interoperability Genetec

Wiz Mind | DH-IPC-HUM8441-E1

User/Host	20 (Total bandwidth: 64 M)				
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS				
Browser	IE 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				
Port					
Audio Input	1 channel (3.5mm JACK port)				
Audio Output	1 channel (3.5mm JACK port)				
Alarm Input	2 channels in: 5mA 3V–5V DC				
Alarm Output	2 channels out: max. 1,000 mA 30 VDC/max. 500 mA 50 VAC				
Power					
Power Supply	12 VDC/PoE (802.3af)				
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: 2.6 W (12 VDC); 3.7 W (PoE) Max. (Intelligence + WDR): 3.9 W (12 VDC); 5.4 W (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)				
Protection	IP67 (L3)				
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") L3: Φ30.5 mm × 55.4 mm (Φ1.20" × 2.18") L4: 35 mm × 35 mm × 26.7 mm (1.38" × 1.38" × 1.05") L5: 35 mm × 35 mm × 28.4 mm (1.38" × 1.38" × 1.12")				
Net Weight	554 g (1.22 lb)				
Gross Weight	724 g (1.60 lb)				

Ordering Information					
Туре	Model	Description			
2MP Camera	DH-IPC-HUM8441-E1	4MP Covert Pinhole WizMind Network Camera-Main Box			
Accessories (Optional)	IPC-HUM8441-L1	4MP Covert Pinhole WizMind Network Camera-Lens Unit			
	IPC-HUM8441-L3-S2	4MP Covert Pinhole WizMind Network Camera-Lens Unit			
	IPC-HUM8441-L4	4MP Covert Pinhole WizMind Network Camera-Lens Unit			
	IPC-HUM8441-L5	4MP Covert Pinhole WizMind Network Camera-Lens Unit			

Accessories

Optional:



IPC-HUM8441-L1

4MP Covert Pinhole

WizMind Network Camera-Lens Unit

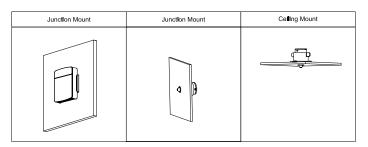
IPC-HUM8441-L5 4MP Covert Pinhole WizMind Network Camera-Lens Unit

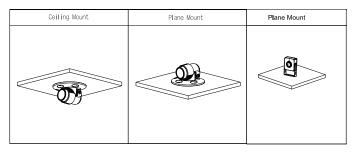


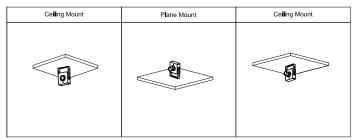


IPC-HUM8441-L3-S2 2MP Covert Pinhole WizMind Network Camera-Lens Unit

IPC-HUM8441-L4 4MP Covert Pinhole WizMind Network Camera-Lens Unit



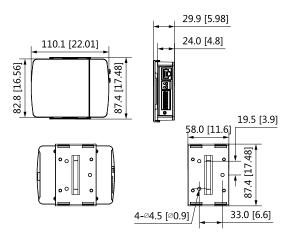




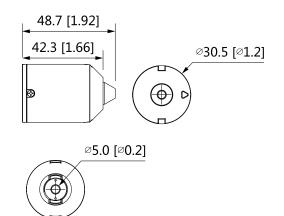
Wiz Mind | DH-IPC-HUM8441E-E1

Dimensions (mm[inch])

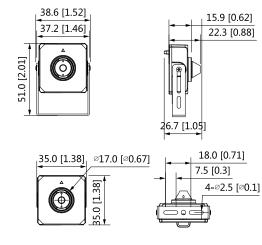
IPC-HUM8441-E2



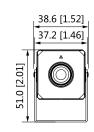
IPC-HUM8441-L1

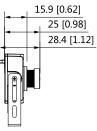


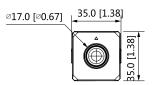
IPC-HUM8441-L4

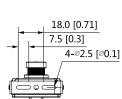


IPC-HUM8441-L5

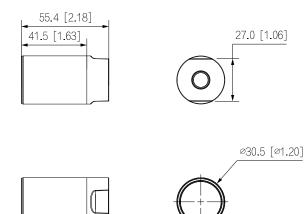








IPC-HUM8441-L3-S2



Rev 002.000 © 2024 Dahua. All rights reserved. Design and specifications are subject to change without notice. The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.