



# DH-IPC-HUM8241-E2

# 2MP Covert Pinhole WizMind Network Camera-Main Box





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 2MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 2 channels 2MP (1920 × 1080)@25/30 fps.
- H.265 codec allows 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
- · 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.
- 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 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** Video H.265; H.264; H.264H; H.264B; MJPEG (only supported Camera Video Compression by the sub stream) Image Sensor 1/2.8" 2 Megapixel progressive CMOS Smart H.265+ **Smart Codec** Smart H.264+ Max. Resolution 1920 (H) × 1080 (V) Main stream: 1920 × 1080 @25/30 fps Video Frame Rate Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps 128 MB **ROM** Stream Capability RAM 1 GB 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 Scanning System Progressive × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF Resolution (352 × 288/352 × 240) Auto/Manual 1/3 s-1/100,000 s **Electronic Shutter Speed** Bit Rate Control CBR/VBR 0.005 Lux@F2.0 (Color.30 IRF) Min. Illumination H.264: 3 kbps-20480 kbps 0.0005 Lux@F2.0 (B/W,30 IRE) Video Bit Rate H.265: 3 kbps-20480 kbps S/N Ratio >56 dB Day/Night Color/B/W Lens **BLC** Fixed-focal Lens Type HLC Yes Lens Mount M12 WDR 120 dB Focal Length 2.8 mm Scene Self-adaptation Yes L1/L4/L5: F2.0 Max. Aperture Auto; natural; street lamp; outdoor; manual; regional White Balance L3: F1.6 custom L1/L4: Horizontal: 105°; Vertical: 58°; Diagonal: 118° Gain Control Manual; auto L3: Horizontal: 109°; Vertical: 58°; Diagonal: 127° L5: Horizontal: 109°; Vertical: 58°; Diagonal: 127° Field of View Noise Reduction 3D NR Iris Control Fixed **Motion Detection** OFF/ON (4 areas, rectangular) 0.5 m Close Focus Distance Region of Interest (RoI) Yes (4 areas) Observe Lens Detect Recognize Identify Defog Yes L1/L4-2.8 42.1 m 16.8 m 4.2 m 8.4 m 0°/90°/180°/270° (support 90°/270° with 1080p mm (138.12 ft) (55.12 ft) (27.56 ft) (13.78 ft) Image Rotation resolution and lower) 43.9 m 17.5 m 8.8 m 4.4 m L3-2.8 mm Mirror Yes (14.44 ft) (144.03 ft) (57.41 ft) (28.87 ft) DORI 42.9 m 8.6 m 17.2 m 4.3 m Privacy Masking Distance L5-2.8 mm (140.75 ft) (56.43 ft) (28.22 ft) (14.11 ft) Audio \*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to G.711a; G.711Mu; PCM; G.726; G.723 Audio Compression distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent Alarm function distances, refer to installation and commissioning manual/ project design tool No SD card, SD card full, SD card error, network Intelligence disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, fast Tripwire, intrusion, fast moving (the three functions Alarm Event moving, missing object, abandoned object, parking support the classification and accurate detection detection, loitering detection, people gathering; scene IVS (Perimeter Protection) of vehicle and human); loitering detection, people changing, audio detection, voltage detection, external gathering, and parking detection alarm, face detection , and security exception **Smart Object Detection** Smart abandoned object; smart missing object Network Face detection; track; snapshot; snapshot optimization; Network Port RJ-45 (10/100 Base-T) optimal face snapshot upload; face enhancement; face exposure; face attribute extraction including 6 attributes SDK and API (gender, age, glasses, expressions, mask and beard) and 8 expressions (anger, calm, happiness, sadness, disgust, Face Detection IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; surprise, confusion and fear); face snapshot set as face SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Network Protocol or one-inch photo; 3 snapshot strategies (real-time Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP snapshot, optimization snapshot, and quality priority); face angle filter; optimization time setting ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone;

Work together with Smart NVR to perform refine

intelligent search, event extraction and merging to event

Smart Search

Interoperability

User/Host

Storage

Genetec

20 (Total bandwidth: 64 M)

FTP; SFTP; Micro SD card (support max. 256 G); NAS

Browser	IE: IE8, IE9, and IE11 Chrome Firefox
Management Software	Smart PSS Lite; DSS; DMSS
Mobile Client	IOS; Android
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
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 (3.5 mm JACK port)
Audio Output	1 channel (3.5 mm JACK port)
Alarm Input	2 channels in: 5 mA 3V–5V DC
Alarm Output	2 channels out: 1,000 mA 30V DC/500 mA 50V DC
Power	
Power Supply	12V DC/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: 2.8W (12V DC); 3.5W (PoE) Max. (Intelligence + WDR): 4.5W (12V DC); 5.5W (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	E2: 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	210 g (0.5 lb)
Gross Weight	376 g (0.8 lb)

Ordering Information				
Туре	Model	Description		
2MP Camera	DH-IPC-HUM8241-E2	2MP Covert Pinhole WizMind Network Camera-Main Box		
Accessories (Optional)	IPC-HUM8241-L1	2MP Covert Pinhole WizMind Network Camera-Lens Unit		
	IPC-HUM8241-L3-S2	2MP Covert Pinhole WizMind Network Camera-Lens Unit		
	IPC-HUM8241-L4	2MP Covert Pinhole WizMind Network Camera-Lens Unit		
	IPC-HUM8241-L5	2MP Covert Pinhole WizMind Network Camera-Lens Unit		

# Accessories

# **Optional**



IPC-HUM8241-L1 2MP Covert Pinhole WizMind Network Camera-Lens Unit



IPC-HUM8241-L3-S2 2MP Covert Pinhole WizMind Network Camera-Lens Unit



IPC-HUM8241-L4 2MP Covert Pinhole WizMind Network Camera-Lens Unit



IPC-HUM8241-L5 2MP Covert Pinhole WizMind Network Camera-Lens Unit

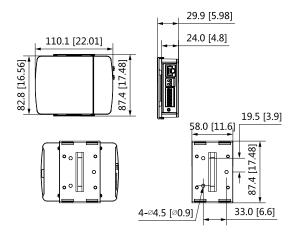
Junction Mount	Junction Mount	Celling Mount

Ceiling Mount	Plane Mount	Plane Mount

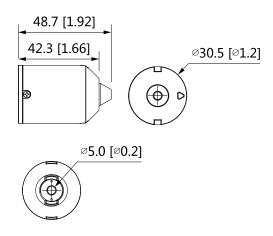
Ceiling Mount	Plane Mount	Ceilling Mount

# Dimensions (mm[inch])

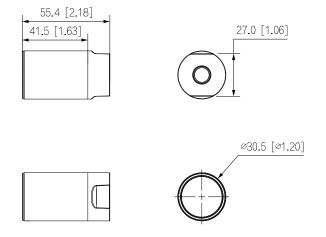
# IPC-HUM8241-E2



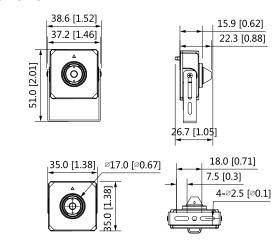
### IPC-HUM8241-L1



# IPC-HUM8241-L3-S2



# IPC-HUM8241-L4



# IPC-HUM8241-L5

