



# DH-IPC-HUM8241-E1

## 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 and face recognition. 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

- Starlight 2MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 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 detection: Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); abandoned object, 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.
- Multiple lens unit optional; require a lens unit to work together.













detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

#### **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.

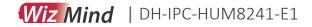
### **Face Attributes**

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	on				2 1	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Camera			Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			
Image Sensor 1/2.8" 2 Megapixel prog		apixel progress	kel progressive CMOS		Bit Rate Control	CBR/VBR	
Max. Resolution		1920 (H) × 1080 (V)				Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
ROM		128 MB			Day/Night	Color/B/W	
RAM		512 MB			BLC	Yes	
Scanning Sys	tem	Progressive			HLC	Yes	
Electronic Sh	utter Speed	Auto/Manual 1/3 s–1/100,000 s			WDR	120 dB	
Min. Illumina	ation	0.005 Lux@F2.0 (Color,30 IRE) 0.0005 Lux@F2.0 (B/W,30 IRE)			Scene Self-adaptation	Yes	
S/N Ratio		> 56 dB			White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Lens		, 55 45			Gain Control	Manual; auto	
Lens Type		Fixed-focal			Noise Reduction	3D NR	
Lens Mount		M12			Motion Detection	OFF/ON (4 areas, rectangular)	
Focal Length		2.8 mm			Region of Interest (RoI)	Yes (4 areas)	
Max. Apertu		2.8 mm: F2.0				Defog	Yes
		L1/L4: Horizontal: 105°; Vertical: 58°; Diagonal: 118°			Image Rotation	0°/90°/180°/270° (support 90°/270° with 1080p resolution and lower)	
Field of View	•	L3: Horizontal: 114°; Vertical: 60°; Diagonal: 136° L5-2.8 mm: Horizontal: 109°; Vertical: 58°; Diagonal: 127°			Mirror	Yes	
Iris Control		Fixed			Privacy Masking	4 areas	
Close Focus Distance 2.8 mm: 0.5 m		Audio					
	Lens	Detect	Observe	Recognize	Identify	Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
	L1/L4-2.8 mm	42.1 m (138.1 ft)	16.8 m (55.1 ft)	8.4 m (27.6 ft)	4.2 m (13.8 ft)	Alarm	
DORI Distance	L3-2.8 mm	41.4 m (135.8 ft) 42.9 m (140.7 ft)	16.6 m (54.5 ft) 17.2 m (56.4 ft)	8.3 m (60.0 ft) 8.6 m (28.2 ft)	4.1 m (13.5 ft) 4.3 m (14.1 ft)	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, missing object, abandoned object, parking detection, loitering detection, people gathering; scene
Intelligen	ce	(1101711)	(50.110)	(2012 11)	(11110)		changing, audio detection, voltage detection, external alarm, face detection , and security exception.
		Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection			Network		
IVS (Perimet	er Protection)				Network Port	RJ-45 (10/100 Base-T)	
		Face detection; track; snapshot; snapshot optimization;			SDK and API	Yes	
Face Detecti	on	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,				Network Protocol	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
		surprise, confusion and fear); face snapshot set as face or one-inch photo; 3 snapshot strategies (real-time			Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
		snapshot, optimization snapshot, and quality priority); face angle filter; optimization time setting			User/Host	20 (Total bandwidth: 64 M)	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event			Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Video		videos			Browser	IE: IE8, IE9, and IE11 Chrome Firefox	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)			Management Software	Smart PSS; DSS; DMSS	
Smart H.265+ Smart H.264+					Mobile Client	IOS; Android	
Video Frame	Rate	Main stream: 1920 × 1080 @25/30 fps Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps Third stream: 1920 × 1080 @25/30 fps			Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; systom HTTPS: 802 1x; Trusted boot: Trusted	
Stream Capa	bility	3 streams					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
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#### 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)
Power Consumption	Basic: 2.3W (12V DC); 2.8W (PoE) Max. (Intelligence + WDR): 3.7W (12V DC); 4.5W (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	IP66 (L3)

#### Structure

Casing	Metal
Product Dimensions	E1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L1: \$\phi 30.5 \text{ mm} \times 48.7 \text{ mm} (\phi 1.20" \times 1.92") L3: \$\phi 30.5 \text{ mm} \times 57.6 \text{ mm} (\phi 1.20" \times 2.27") L4: \$35 \text{ mm} \times 35 \text{ mm} \times 26.7 \text{ mm} (1.38" \times 1.38" \times 1.05") L5: \$35 \text{ mm} \times 35 \text{ mm} \times 28.4 \text{ mm} (1.38" \times 1.38" \times 1.12")
Net Weight	210 g (0.5 lb)
Gross Weight	376 g (0.8 lb)

#### **Ordering Information** Description Type Model 2MP 2MP Covert Pinhole WizMind DH-IPC-HUM8241-E1 Network Camera-Main Box Camera 2MP Covert Pinhole WizMind IPC-HUM8241-L1 Network Camera-Lens Unit 2MP Covert Pinhole WizMind IPC-HUM8241-L3 Network Camera-Lens Unit Accessories (Optional) 2MP Covert Pinhole WizMind IPC-HUM8241-L4 Network Camera-Lens Unit 2MP Covert Pinhole WizMind IPC-HUM8241-L5 Network Camera-Lens Unit

## Accessories

## **Optional**







IPC-HUM8241-L3 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

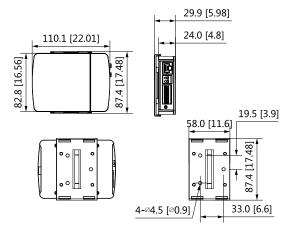
Junction Mount	Junction Mount	Ceiling Mount

P <b>l</b> ane Mount	Ceiling Mount	Plane Mount
	<b>33</b>	

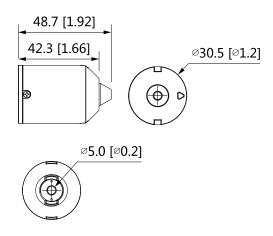
Celling Mount	Plane Mount	Celling Mount

## Dimensions (mm[inch])

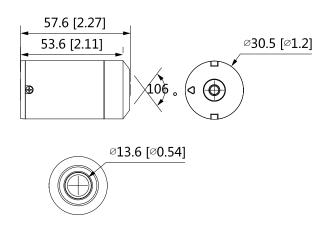
#### IPC-HUM8241-E1



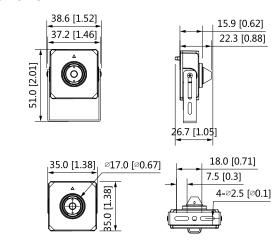
#### IPC-HUM8241-L1



#### IPC-HUM8241-L3



#### IPC-HUM8241-L4



#### IPC-HUM8241-L5

