



## DH-IPC-HUM8241-E1-L1

2MP Covert Pinhole WizMind Network Camera-KIT





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.

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. 2MP (1920 × 1080)@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.

Technical Specification				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			
Camera							Bit Rate Control	(332 × 266/332 × 240) CBR/VBR
Image Sensor		1/2.8" CMOS					Video Bit Rate	H.264: 3 kbps–20480 kbps
Max. Resolution		1920 (H) × 1080 (V)						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 Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					WDR	120 dB
Min. Illumination		0.005 Lux@F2.0 (Color,30 IRE) 0.0005 Lux@F2.0 (B/W,30 IRE)					Scene Self-adaptation (SSA)	Yes
S/N Ratio		> 56 dB					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens							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)
		2.8 mm: F2.0					Defog	Yes
Max. Aperture		Horizontal: 105°;					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
Field of View		Vertical: 58°; Diagonal: 118°					Mirror	Yes
Iris Control		Fixed					Privacy Masking	4 areas
Close Focus I	Distance	0.5 m					Audio	
	Lens	Detect	Observe	Recognize	Identify		Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
DORI Distance	IPC-	42.1 m	16.8 m	8.4 m	4.2 m		Alarm	
Intelligend	HUM8241- L1 Ce	support the c	lassification ar	(27.6 ft)  ring (the three fad accurate detering detection,	ection		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 changing, audio detection, voltage detection, external alarm, face detection, and security exception.
		gathering, and parking detection					Network	
Smart Object	t Detection	Smart abandoned object; smart missing object					Network Port	RJ-45 (10/100 Base-T)
		optimal face s	snapshot uploa	hot; snapshot on the discolories discolories in the discolories di	cement; face		SDK and API	Yes
Face Detection	Face Detection		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				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
		or one-inch photo; 3 snapshot strategies (real-time snapshot, optimization snapshot, and quality priority); face angle filter; optimization time setting					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Smart Search		Work together with Smart NVR to perform refine					User/Host	20 (Total bandwidth: 64 M)
Siliait Sealcii		intelligent search, event extraction and merging to event videos					Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS
Video H.265; H.264; H.264H; H.264B; MJPEG (only supported			Browser	IE: IE8, IE9, and IE11 Chrome Firefox				
Video Compression		by the sub stream)					Management Software	Smart PSS; DSS; DMSS
Smart Codec		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
Stream Capability		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)

#### 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)
Gross Weight	376 g (0.8 lb)

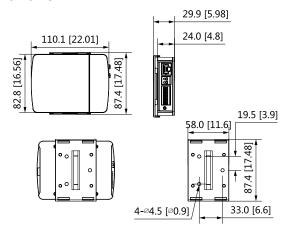
# Ordering Information Type Model Description Main Box DH-IPC-HUM8241-E1 2MP Covert Pinhole WizMind Network Camera-Main Box Len IPC-HUM8241-L1 2MP Covert Pinhole WizMind Network Camera-Len Unit

### Installation

Junction Mount	Junction Mount	Cel <b>l</b> ing Mount

#### Dimensions (mm[inch])

#### DH-IPC-HUM8241-E1



#### IPC-HUM8241-L1

