



# DH-IPC-HUM8241-E1-L5

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 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, 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.
- Power on after connecting the lens to the back-end device; otherwise the device might be damaged.













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				Bit Rate Control	CBR/VBR	
Camera					Video Bit Rate	H.264: 3 kbps-20480 kbps H.265: 3 kbps-20480 kbps		
Image Sensor		1/2.8" CMOS				Day/Night	Color/B/W	
Max. Resolution		1920 (H) × 1080 (V)				BLC	Yes	
ROM		128 MB				HLC	Yes	
RAM		512 MB				WDR	120 dB	
Scanning System		Progressive				Scene Self-adapt (SSA)	tation Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				White Balance	Auto; natural; street lamp; outdoor; manual; regional	
Min. Illumination		0.005 Lux@F2.0 (Color,30 IRE) 0.0005 Lux@F2.0 (B/W,30 IRE)				Gain Control	custom Manual; auto	
S/N Ratio		> 56 dB				Noise Reduction	3D NR	
Lens						Motion Detection	on OFF/ON (4 areas, rectangular)	
Lens Type		Fixed-focal				Region of Intere	st (RoI) Yes (4 areas)	
Lens Mount		M12				Defog	Yes	
Focal Length		2.8 mm				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)	
Max. Aperture		2.8 mm: F2.0				Mirror	Yes	
Field of View		Horizontal: 109°; Vertical: 58°;				Privacy Masking	4 areas	
		Diagonal: 127°				Audio		
Iris Control		Fixed				Audio Compress	G.711a; G.711Mu; PCM; G.726; G.723	
Close Focus I	Distance	0.5 m				Alarm		
DORI Distance	Len IPC- HUM8241- L5	Detect 42.9 m (140.7 ft)	Observe 17.2 m (56.4 ft)	8.6 m (28.2 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; scen changing, audio detection, voltage detection, external	
		Tripwire, intrusion, fast moving (the three functions				N	alarm, face detection , and security exception.	
IVS (Perimete	er Protection)	support the classification and accurate detection of vehicle and human); loitering detection, people				Network		
		gathering, and parking detection  Face detection; track; snapshot; snapshot optimization;				Network Port	RJ-45 (10/100 Base-T)	
		optimal face s	snapshot uploa	d; face enhanc	ement; face	SDK and API	Yes	
Face Detection	on	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 and of filters extractions time stations.				Network Protoco	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTI ol SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTF Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP	
						Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milesto Genetec	
		face angle filter; optimization time setting  Work together with Smart NVR to perform refine				User/Host	20 (Total bandwidth: 64 M)	
Smart Search	1	intelligent sea videos	arch, event ext	raction and me	rging to event	Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Video		Hace Hack Hackli Hacks Misse lash www.				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 So	oftware 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				Cultura Consumitary	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security I	
Stream Capability		3 streams				Cyber Security	IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Tru execution; Trusted upgrade	
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					слесской, поэсси арупаче	



# 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") 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)

# Type Model Description Main Box DH-IPC-HUM8241-E1 2MP Covert Pinhole WizMind Network Camera-Main Box Len IPC-HUM8241-L5 2MP Covert Pinhole WizMind Network Camera-Main Box

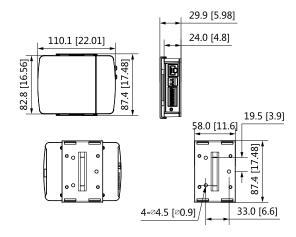
Network Camera-Len Unit

## Installation

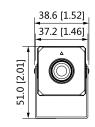
Junction Mount	Plane Mount	Ceiling Mount

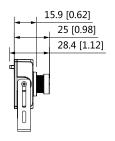
# Dimensions (mm[inch])

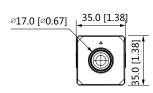
# DH-IPC-HUM8241-E1

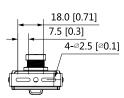


# IPC-HUM8241-L5









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