



# DH-IPC-HUM8241E-E1-L3-S2

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.

#### **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 2-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@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.
- The Network Camera Main Box connects to the lens through the included 8 m coaxial cable.
- · IP67 protection (L3).
- · 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 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.

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								
Image Sensor 1/2.7" 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 Syst	em	Progressive				HLC	Yes	
Electronic Shu	utter Speed	Auto/Manual 1/3 s-1/100,000 s				WDR	120 dB	
Min. Illuminat	tion	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (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	Auto; Manual	
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. Aperture		F1.6				Defog	Yes	
Field of View  Iris Control		H: 109°; V: 58°; D: 127° Fixed				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080P resolution and lower)	
Close Focus Distance 0.7 m (2.30 ft)			Mirror	Yes				
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	8 areas
DORI Distance	2.8 mm	43.9 m (144.03 ft)	17.5 m (57.41 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)		Audio	
Intelligenc	е						Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723; PCM
		Intrusion, tripwire, fast moving (the three functions				Alarm		
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection				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; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; security exception	
Smart Object Detection		Smart abandoned object; smart missing object  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				Network		
Face Detectio	on					Network Port	RJ-45 (10/100 Base-T)	
						SDK and API	Yes	
Smart Search		filter; optimization time setting  Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos			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		
Video					execution; trusted upgrade  IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;			
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP	
Smart Codec		Smart H.265+;Smart H.264+				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
NO. 1 -		sub stream: 7	Main stream: 1920 × 1080@(1–25/30 fps ) sub stream: 704 × 576 (1–25 fps)/704 × 480@(1–30 fps) third stream: 1920 × 1080@(1–25/30 fps)				User/Host	20 (Total bandwidth: 64 M)
Video Frame F	Kate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected				Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS	
		to the total encoding capacity.			Browser	IE Chrome		
Stream Capability		3 streams			Firefox			

# Wiz Mind | DH-IPC-HUM8241E-E1-L3-S2

Management Software	SmartPSS Lite; DSS; DMSS
Mobile Client	iOS; Android
Certification	
	CE IVD: EN63368 1:

CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Dir 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B	ective
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#### 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
Power Consumption	Basic: 2.4 W (12 VDC); 3.2 W (PoE) Max. (Intelligence + WDR): 3.8 W (12 VDC); 4.5 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") L3: Φ30.5 mm × 55.4 mm (Φ1.20" × 2.18")
Net Weight	554 g (1.22 lb)
Gross Weight	724 g (1.60 lb)

Ordering Information			
Туре	Model	Description	
Main Box	DH-IPC-HUM8241-E1	2MP Covert Pinhole WizMind Network Camera-Main Box	
Len	IPC-HUM8241E-L3-S2	2MP Covert Phinhole WizMind Netwok Camera-Lens Unit	
Accessories (Optional)	PFM321D	12 VDC 1 A Power Adapter	
	TF-P100	MicroSD Memory Card	

# Accessories

# Optional:



PFM321D 12 VDC 1 A Power Adapter

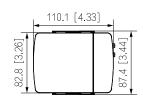


TF-P100 MicroSD Memory Card

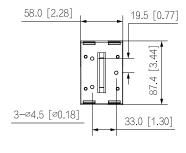
Ceiling Mount	Plane Mount	Junction Mount

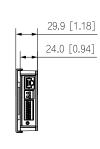
## Dimensions (mm[inch])

### DH-IPC-HUM8241-E1









# IPC-HUM8241E-L3-S2

