



# 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); abandoned object, 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	on				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Camera		Resolution	(352 × 288/352 × 240)				
Image Senso	or	1/2.7" CMOS			Bit Rate Control	CBR/VBR	
Max. Resolut	tion	1920 (H) × 10	80 (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	stem	Progressive				HLC	Yes
Electronic Sh	nutter Speed	Auto/Manual	1/3 s-1/100,0	000 s		WDR	120 dB
Min. Illumina	ation		6 (Color, 30 II 1.6 (B/W, 30 I			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	1	2.8 mm				Region of Interest (RoI)	Yes (4 areas)
Max. Apertu	ire	F1.6				Defog	Yes
Field of View	/	H: 109°; V: 58	°; D: 127°			-	0°/90°/180°/270° (Support 90°/270° with 1080P
Iris Control		Fixed				Image Rotation	resolution and lower)
Close Focus		0.7 m (2.30 ft				Mirror	Yes
DORI	Lens	Detect	Observe	Recognize	Identify	Privacy Masking	8 areas
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	
Smart Eve	ent					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723; PCM
IVS (Perimet	er Protection)	support the c	lassification ar	ring (the three to not accurate det ering detection, ction	ection	Alarm	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
Object Moni	itoring	Abandoned o	bject; object r		optimization;	Alarm Event	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
		exposure; fac	e attributes ex		ing 6 attributes	Network	aiam, race detection, security exception
Face Detecti	on	(gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or			Network Port	RJ-45 (10/100 Base-T)	
		one-inch pho	to; snapshot s	trategies (real-t ation snapshot)	ime snapshot,	SDK and API	Yes
		filter; optimiz	ation time set	ting			Video encryption; firmware encryption; configuration
Smart Search	h	0		NVR to perform raction and me		Cyber Security	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
Video							IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;
Video Comp	ression	H.265; H.264; by the sub str		48; MJPEG (Or	lly supported	Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP
Smart Codeo		Smart H.265+	;Smart H.264-	+		Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
		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	e Rate	FTP; SFTP; Micro SD card (support max. 256 GB); NAS					
		to the total encoding capacity.			Browser	IE Chrome	
Stream Capa	bility	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
---	--------

#### 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

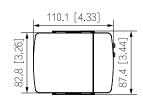


TF-P100 MicroSD Memory Card

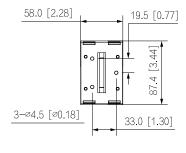
Ceiling Mount	Plane Mount	Junction Mount

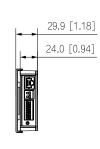
# Dimensions (mm[inch])

## DH-IPC-HUM8241-E1









# IPC-HUM8241E-L3-S2

