



DH-IPC-HUM8441E-E1-L3-S2

4MP 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 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@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.

Stream Capability

3 streams

Technical Specification			Resolution	4M (2688 × 1520); 3.6M (2056 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p				
Camera					resolution	(1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Image Sensor		1/2.7" CMOS				Bit Rate Control	CBR/VBR	
Max. Resolution		2688 (H) × 1520 (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		1 GB				BLC	Yes	
Scanning Sys	tem	Progressive				HLC	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				WDR	120 dB	
Min. Illumina	ation	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE)				Scene Self-adaptation	Yes	
S/N Ratio		>56 dB				(SSA)		
Lens						White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Lens Type		Fixed-focal				Gain Control	Auto;Manual	
Lens Mount		M12				Noise Reduction	3D NR	
Focal Length		2.8 mm				Motion Detection	OFF/ON (4 areas, rectangular)	
Max. Aperture		F1.6				Region of Interest (RoI)	Yes (4 areas)	
Field of View		H: 102°; V: 54°; D: 121°				Defog	Yes	
Iris Control		Fixed				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688×1520 resolution and lower)	
Close Focus I	Distance	1.1 m (3.60 ft)				Mirror	Yes
DORI	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	8 areas
Distance	2.8 mm	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (21.00 ft)		Audio	
Intelligend	ce						Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723; PCM
		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking 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 filter; optimization time setting				Alarm		
IVS (Perimete	er Protection)					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	t Detection							
Face Detection	on					Network		
. dee Detection						Network Port	RJ-45 (10/100 Base-T)	
						SDK and API	Yes	
Smart Search		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 log: IP/MAC filtering; Generation and importing of X.509 contification, such as ILTDS: 800 1xt Tursted boots. Tursted	
Video						certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade		
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTM SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;	
Smart Codec		Smart H.265+;Smart H.264+					Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Mileston	
Video Frame Rate		Main stream: $2688 \times 1520 @ (1-25/30 \text{ fps})$ sub stream: $704 \times 576 (1-25 \text{ fps})/704 \times 480@ (1-30 \text{ fps})$ third stream: $1920 \times 1080@ (1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.				Interoperability	Genetec	
						User/Host	20 (Total bandwidth: 64 M)	
						Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS	
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Browser	IE Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	iOS; Android

Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU;
	FCC: 47 CFR FCC Part 15, Subpart B

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 (802.3af)
Power Consumption	Basic: 2.6 W (12 VDC); 3.7 W (PoE) Max. (Intelligence + WDR): 3.9 W (12 VDC); 5.4 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: ϕ 30.5 mm × 55.4 mm (ϕ 1.20" × 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-HUM8441-E1	4MP Covert Pinhole WizMind Network Camera-Main Box	
Len	IPC-HUM8441E-L3-S2	4MP Covert Phinhole WizMind Netwok Camera-Lens Unit	
Accessories (Optional)	PFM321D	12 VDC 1 A Power Adapter	
	TF-P100	MicroSD Memory Card	

Accessories

Optional:





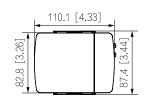


TF-P100 MicroSD Memory Card

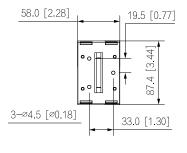
Ceiling Mount	Plane Mount	Junction Mount

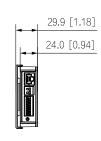
Dimensions (mm[inch])

DH-IPC-HUM8441-E1









IPC-HUM8441E-L3-S2

