



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.

Technical Specification						Video Frame Rate third stream: 1920 × 1080@(1–25/30 fps) *The values above are the max. frame rates of each	sub stream: $704 \times 576 (1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ third stream: $1920 \times 1080@(1-25/30 \text{ fps})$	
Camera Image Sensor		1/2.7" CMOS						
Max. Resolution		2688 (H) × 1520 (V)						
						Stream Capability	3 streams	
ROM		128 MB				Resolution	4M (2688 × 1520); 3.6M (2056 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
RAM		1 GB						
Scanning System		Progressive				Bit Rate Control	CBR/VBR	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Video Bit Rate	H.264: 3 kbps–20480 kbps;	
Min. Illumin	ation	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE)					H.265: 3 kbps–20480 kbps	
S/N Ratio		>56 dB				Day/Night	Color/B/W	
Lens						BLC	Yes	
Lens Type		Fixed-focal				HLC	Yes	
Lens Mount		M12					WDR	120 dB
Focal Length		2.8 mm			Scene Self-adaptation (SSA)	Yes		
Max. Apertu	ire	F1.6				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Field of View		H: 102°; V: 54°; D: 121°				Gain Control	Auto;Manual	
Iris Control		Fixed				Noise Reduction	3D NR	
Close Focus	Distance	1.1 m (3.60 ft	t)				Motion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect 63.6 m	Observe 25.4 m	Recognize 12.7 m	Identify 6.4 m		Region of Interest (RoI)	Yes (4 areas)
DODI	2.8 mm	(208.66 ft)	(83.33 ft)	(41.67 ft)	(21.00 ft)		Defog	Yes
Distance (EN-62676-4) distinguish pe this table do I function dista		ct, Observe, Recognize, Identify) is a standard system I for defining the ability of a person viewing the video to ersons or objects within a covered area. The numbers in not reflect intelligent function distances. For intelligent ances, refer to installation and commissioning manual/				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688×1520 resolution and lower)	
						Mirror	Yes	
Intelligen	project design tool.				Privacy Masking	8 areas		
mtemgen		Intrusion, trip	owire. fast mov	ing (the three t	unctions		Audio	
IVS (Perimet	er Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people				Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723; PCM	
			d parking dete				Alarm	
Smart Object Detection Face 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 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	
						Network		
						Network Port	RJ-45 (10/100 Base-T)	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				SDK and API	Yes	
videos			Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs, IP/MAC filtering; Generation and importing of X.509				
	Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				System seeming	certification; syslog; HTTPS; 802.1x; Trusted boot; Truste execution; Trusted upgrade
Smart Codec		Smart H.265+;Smart H.264+			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		
								Widelicast, ICIVII , ICIVII , IVI S, SAIVIDA, FFFUE, SIVIVIP

Interoperability

ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone;

Genetec

User/Host	20 (Total bandwidth: 64 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS		
Browser	IE Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
Mobile Client	iOS; Android		

Certification

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)		
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.		
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: 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-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:



PFM321D 12 VDC 1 A Power Adapter

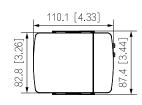


TF-P100 MicroSD Memory Card

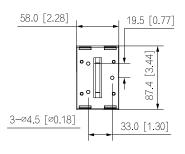
Ceiling Mount	Plane Mount	Junction Mount

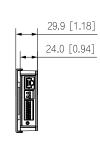
Dimensions (mm[inch])

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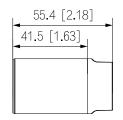


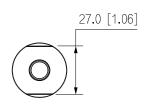




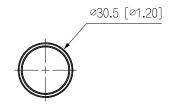


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