



DH-IPC-HUM8441-E1-L3

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 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 4MP 1/2.7" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 4MP (2688 × 1520)@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			В	it Rate Control	CBR/VBR			
Camera			V	ideo Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps			
Image Sensor		1/2.7" CMOS			D	ay/Night	Color/B/W	
Max. Resolution		2688 (H) × 1520(V)			В	LC	Yes	
ROM		128 MB				Н	ILC	Yes
RAM		1 GB			W	VDR	120 dB	
Scanning System		Progressive				cene Self-adaptation	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				Vhite Balance	Auto; natural; street lamp; outdoor; manual; regional	
Min. Illumina	ation	0.005 Lux@F2.0 (Color,30 IRE) 0.0005 Lux@F2.0 (B/W,30 IRE)			G	Gain Control	custom Manual; auto	
S/N Ratio		>56 dB				loise Reduction	3D NR	
Lens						N	Notion Detection	OFF/ON (4 areas, rectangular)
Lens Type		Fixed-focal				R	egion of Interest (RoI)	Yes (4 areas)
Lens Mount		M12				D	efog	Yes
Focal Length		2.8 mm			In	mage Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)	
Max. Apertu	re	2.8 mm: F2.0			N	Mirror	Yes	
Field of View	,	Horizontal: 109°; Vertical: 57°;			Pi	rivacy Masking	4 areas	
		Diagonal: 129°			А	Audio		
Iris Control		Fixed			А	udio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
Close Focus I	Distance	0.8 m				А	larm	
DORI Distance	Len IPC- HUM8441- L3	Detect 60 m (196.9 ft)	Observe 24 m (78.7 ft)	Recognize 12 m (39.4 ft)	6 m (19.7 ft)	А	larm 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; scene changing, audio detection, voltage detection, external
Intelligen	ce	Trinwire intr	usion fast mov	ving (the three f	functions			alarm, face detection , and security exception
IVS (Perimete	er Protection)	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people			Ν	letwork		
		gathering, an	d parking dete	ection		N	letwork Port	RJ-45 (10/100 Base-T)
		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face			SI	DK and API	Yes	
Face Detection		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 angle filter; optimization time setting			N	letwork Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTM SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP	
					In	nteroperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Mileston Genetec	
		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos			U	lser/Host	20 (Total bandwidth: 64 M)	
Smart Search					St	torage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported			В	rowser	IE: IE8, IE9, and IE11 Chrome Firefox	
Video Compression		by the sub stream) Smart H.265+			N	Nanagement Software	Smart PSS; DSS; DMSS	
Smart Codec		Smart H.264+			N	Nobile Client	IOS; Android	
Video Frame Rate		Main stream: 2688 × 1520 @25/30 fps Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps Third stream: 1920 × 1080 @25/30 fps				Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security log	
Stream Capability		3 streams			C		IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted	



Resolution

4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536);1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)

execution; Trusted upgrade

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/500mA 50V DC		

Power

Power Supply	12V DC/PoE (802.3af)		
Power Consumption	Basic: 2.4W (12V DC); 3W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (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	IP66		

Structure

Casing	Metal		
Product Dimensions	E1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L3: Φ30.5 mm × 57.6 mm (Φ1.20" × 2.27")		
Net Weight	210 g (0.5 lb)		
Gross Weight	376 g (0.8 lb)		

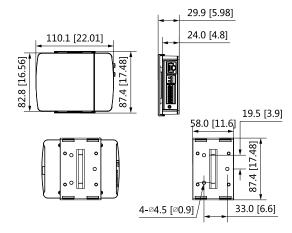
Ordering Information			
Туре	Model	Description	
Main Box	DH-IPC-HUM8441-E1	4MP Covert Pinhole WizMind Network Camera-Main Box	
Len	IPC-HUM8441-L3	4MP Covert Pinhole WizMind Network Camera-Len Unit	

Installation

Junction Mount	Plane Mount	Ce ili ng Mount

Dimensions (mm[inch])

DH-IPC-HUM8441-E1



IPC-HUM8441-L3

