



DH-IPC-HUM8441-E1-L4

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 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 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, 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.
- The Network Camera Main Box connects to the lens through the included 8 m coaxial cable.
- 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 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			4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536);1080p (1920 × 1080); 960p (1280 × 960); 720p				
Camera						Resolution	(1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)
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	stem	Progressive				HLC	Yes
Electronic Sh	nutter Speed	Auto/Manual 1/3 s-1/100,000 s				WDR	120 dB
Min. Illumina	ation	0.005 Lux@F2.0 (Color,30 IRE) 0.0005 Lux@F2.0 (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	Manual; auto	
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	2.8 mm: F2.0			Defog	Yes	
Field of View		Horizontal: 101°; Vertical: 57°;			Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)	
Iris Control		Diagonal: 115° Fixed			Mirror	Yes	
	Dietonos	0.8 m				Privacy Masking	4 areas
Close Focus			Obsania	Decemina	Idontifi	Audio	
DORI	Len IPC-	Detect	Observe	Recognize	Identify	Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Distance	HUM8441- L4	61 m (200.1 ft)	24.4 m (80.1 ft)	12.2 m (40.0 ft)	6.1 m (20.0 ft)	Alarm	
Intelligence Tripwire, intrusion, fast moving (the three functions 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, missing object, abandoned object, parking detection, loitering detection, people gathering; scene changing, audio detection, voltage detection, external alarm, face detection , and security exception				
Smart Objec	t Detection	Smart abando	Smart abandoned object; smart missing object			Network	
		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face			Network Port	RJ-45 (10/100 Base-T)	
		exposure; face attribute extraction including 6 attributes (gender, age, glasses, expressions, mask and beard) and				SDK and API	Yes
Face Detection		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);				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
Smart Search		face angle filter; optimization time setting Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event			Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
		videos			User/Host	20 (Total bandwidth: 64 M)	
Video		Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS				
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)			Browser	IE: IE8, IE9, and IE11 Chrome Firefox	
Smart Codec		Smart H.265+ Smart H.264+			Management Software	Smart PSS; DSS; DMSS	
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			Mobile Client	IOS; Android	
Stream Capa	ability	3 streams					

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 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

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)		

Structure

Casing	Metal
Product Dimensions	E1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L4: 35 mm × 35 mm × 26.7 mm (1.38" × 1.38" × 1.05")
Net Weight	210 g (0.5 lb)
Gross Weight	376 g (0.8 lb)

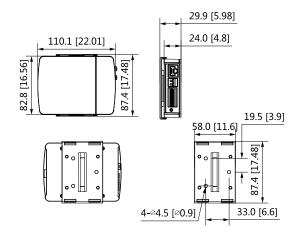
Ordering Information			
Туре	Model	Description	
Main Box	DH-IPC-HUM8441-E1	4MP Covert Pinhole WizMind Network Camera-Main Box	
Len	IPC-HUM8441-L4	4MP Covert Pinhole WizMind Network Camera-Len Unit	

Installation

Junction Mount	Plane Mount	Ce ili ng Mount

Dimensions (mm[inch])

DH-IPC-HUM8441-E1



IPC-HUM8441-L4

