

DH-IPC-HUM8441-E1-L4

4MP Covert Phinhole WizMind Netwok 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 detection
- · 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			Bit Rate Control	CBR/VBR			
Camera			Video Bit Rate	H.264: 3 kbps-20480 kbps H.265: 3 kbps-20480 kbps			
Image Sensor		1/2.7" CMOS				Day/Night	Color/B/W
Max. Resolution		2688 (H) × 1520(V)				BLC	Yes
ROM		128 MB				HLC	Yes
RAM		1 GB				WDR	120 dB
Scanning System		Progressive				Scene Self-adaptation	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				(SSA) White Balance	Auto; natural; street lamp; outdoor; manual; regional
Min. Illumination		0.005 Lux@F2.0 (Color,30 IRE)					custom
S/N Ratio		0.0005 Lux@F2.0 (B/W,30 IRE) >56 dB				Gain Control Noise Reduction	Manual; auto 3D NR
Lens		> 30 ub				Motion Detection	OFF/ON (4 areas, rectangular)
Lens Type		Fixed-focal				Region of Interest (RoI)	Yes (4 areas)
Lens Mount						Defog	Yes
		M12					0°/90°/180°/270° (Support 90°/270° with 1080p
Focal Length		2.8 mm				Image Rotation	resolution and lower)
Max. Aperture		2.8 mm: F2.0				Mirror	Yes
Field of View		Horizontal: 101°; Vertical: 57°; Diagonal: 115°				Privacy Masking	4 areas
Iris Control		Diagonal: 115				Audio	
Close Focus Distance		0.8 m				Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Close Focus	Len	Detect	Observe	Recognize	Identify	Alarm	
DORI Distance	IPC- 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 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	Tripwire intra	usion fast mou	ving (the three f	functions		alarm, face detection , and security exception
IVS (Perimet	er Protection)	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection			Network		
		of vehicle and human); loitering detection, people gathering, and parking detection			Network Port	RJ-45 (10/100 Base-T)	
		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face 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				SDK and API	Yes
Face Detecti	ion					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
						Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Smart Searc	h	Work together with Smart NVR to perform refine			User/Host	20 (Total bandwidth: 64 M)	
Smart Searc		intelligent search, event extraction and merging to event videos			Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported				Browser	IE: IE8, IE9, and IE11 Chrome Firefox
Video Compression		by the sub stream)				Management Software	Smart PSS; DSS; DMSS
Smart Codec		Smart H.265+ Smart H.264+				Mobile 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 logs; IP/MAC filtering; Generation and importing of X.509
Stream Capability		3 streams				certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade	
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)					

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)

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)

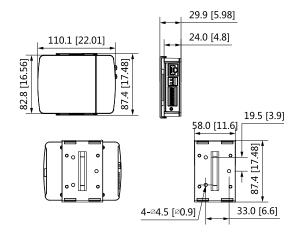
Ordering Information Type Model Description Main Box DH-IPC-HUM8441-E1 4MP Covert Phinhole WizMind Netwok Camera-Main Box Len IPC-HUM8441-L4 4MP Covert Phinhole WizMind Netwok Camera-Len Unit

Installation

Junction Mount	Plane Mount	Celling Mount

Dimensions (mm[inch])

DH-IPC-HUM8441-E1



IPC-HUM8441-L4

