

DH-IPC-HUM8441-E1-L3

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	on				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 (SSA)	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s			White Balance	Auto; natural; street lamp; outdoor; manual; regional	
Min. Illumination		0.005 Lux@F2.0 (Color,30 IRE)			Gain Control	custom Manual; auto	
S/N Ratio		0.0005 Lux@F2.0 (B/W,30 IRE) >56 dB			Noise Reduction	3D NR	
Lens						Motion Detection	OFF/ON (4 areas, rectangular)
Lens Type		Fixed-focal				Region of Interest (RoI)	Yes (4 areas)
Lens Mount		M12				Defog	Yes
Focal Length		2.8 mm					0°/90°/180°/270° (Support 90°/270° with 1080p
Max. Apertur	re			Image Rotation	resolution and lower)		
wax. Aperea		2.8 mm: F2.0 Horizontal: 109°;			Mirror	Yes	
Field of View		Vertical: 57°; Diagonal: 129°			Privacy Masking	4 areas	
Iris Control		Fixed			Audio		
Close Focus Distance		0.8 m			Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
	Len	Detect	Observe	Recognize	Identify	Alarm	
DORI Distance	IPC- HUM8441- L3	60 m (196.9 ft)	24 m (78.7 ft)	12 m (39.4 ft)	6 m (19.7 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
intelligenc	Je	Tripwire, intru	usion. fast mov	ing (the three f	unctions		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			Network		
		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 Detection	on				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; PPP0E; SNMP	
					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone Genetec	
Cmart Caarel		Work together with Smart NVR to perform refine			User/Host	20 (Total bandwidth: 64 M)	
Smart Search		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) Smart H.265+			Management Software	Smart PSS; DSS; DMSS	
Smart Codec		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 log: 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		1536);1080p (1280 × 720);	(1920 × 1080)	560 × 1440); 3N ; 960p (1280 × 9 5/704 × 480); C : 480)	960); 720p		

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)

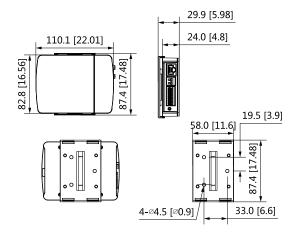
Ordering Information			
Туре	Model	Description	
Main Box	DH-IPC-HUM8441-E1	4MP Covert Phinhole WizMind Netwok Camera-Main Box	
Len	IPC-HUM8441-L3	4MP Covert Phinhole WizMind Netwok Camera-Len Unit	

Installation

Junction Mount	Plane Mount	Ce ili ng Mount

Dimensions (mm[inch])

DH-IPC-HUM8441-E1



IPC-HUM8441-L3

