

DH-IPC-HUM8241-E1-L1

2MP 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 2MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 2MP (1920 × 1080)@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	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		1/2.8" CMOS					Day/Night	Color/B/W
Max. Resolution		1920 (H) × 1080 (V)					BLC	Yes
ROM		128 MB					HLC	Yes
RAM		512 MB					WDR	120 dB
Scanning Sys	tem	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 custom
Min. Illumina	Min. Illumination		2.0 (Color,30 IF 2.0 (B/W,30 II	,			Gain Control	Manual; auto
S/N Ratio		> 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					Image Rotation	0°/90°/180°/270° (support 90°/270° with 1080p resolution and lower)
Max. Aperture		2.8 mm: F2.0					Mirror	Yes
Field of View		Horizontal: 105°;					Privacy Masking	4 areas
Field of View		Vertical: 58°; Diagonal: 118°					Audio	
Iris Control		Fixed					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Close Focus I	Distance	0.5 m					Alarm	
DORI Distance	Lens IPC- HUM8241- L1	Detect 42.1 m (138.1 ft)	Observe 16.8 m (55.1 ft)	8.4 m (27.6 ft)	4.2 m (13.8 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
Intelligend	ce						changing, audio detection, voltage detection, external 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	,,	,	people		Network Port	RJ-45 (10/100 Base-T)
		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face					SDK and API	Yes
Face Detection	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				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
		or one-inch photo; 3 snapshot strategies (real-time snapshot, optimization snapshot, and quality priority); face angle filter; optimization time setting					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
			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		Was Was Was Was 2015					Browser	IE: IE8, IE9, and IE11 Chrome Firefox
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported 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: 1920 × 1080 @25/30 fps Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps Third stream: 1920 × 1080 @25/30 fps						
Stream Capability		3 streams						
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)						
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Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs;

Cyber Security

IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade

Certification

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/500 mA 50V DC

Power

Power Supply	12V DC/PoE (802.3af)	
Power Consumption	Basic: 2.3W (12V DC); 2.8W (PoE) Max. (Intelligence + WDR): 3.7W (12V DC); 4.5W (PoE)	

Environment

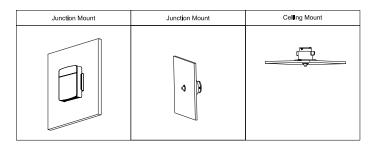
Operating Temperature	-40°C to +60°C (-40°F to 140°F)	
Operating Humidity	≤95%	
Storage Temperature	-40°C to +60°C (-40°F to 140°F)	

Structure

Casing	Metal
Product Dimensions	E1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L1: Φ30.5 mm × 48.7 mm (Φ1.20" × 1.92")
Net Weight	210 g (0.5 lb)
Gross Weight	376 g (0.8 lb)

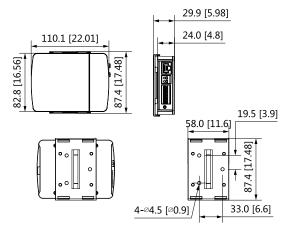
Ordering Information				
Туре	Model	Description		
Main Box	DH-IPC-HUM8241-E1	2MP Covert Pinhole WizMind Network Camera-Main Box		
Len	IPC-HUM8241-L1	2MP Covert Pinhole WizMind Network Camera-Len Unit		

Installation



Dimensions (mm[inch])

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