



DH-IPC-HUM8241-E1-L3

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
- · 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 Specificatio	on			Bit Rate Control	CBR/VBR
Camera				Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
Image Sensor	1/2.8" 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 System	Progressive			Scene Self-adaptation (SSA)	Yes
Electronic Shutter Speed	Auto/Manual 1/3 s–1/1	00,000 s		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Min. Illumination	0.005 Lux@F2.0 (Color, 0.0005 Lux@F2.0 (B/W,	,		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: 114°; Vertical: 60°;			Privacy Masking	4 areas
Diagonal: 136°				Audio	
Iris Control	Fixed			Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Close Focus Distance	0.5 m			Alarm	
DORI Distance IPC- HUM8241- L3 Intelligence	Detect Observ 41.4 m 16.6 m (135.8 ft) (54.5 ft)	8.3 m	4.1 m (13.5 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 alarm, face detection , and security exception.
	Tripwire, intrusion, fast support the classification			Network	, , , , ,
IVS (Perimeter Protection) of vehicle and human); loitering detection of vehicle and human); loitering detection gathering, and parking detection			Network Port	RJ-45 (10/100 Base-T)	
	Face detection; track; si			SDK and API	Yes
optimal face snapshot upload; face enhancement; face exposure; face attribute extraction including 6 attributes (gender, age, glasses, expressions, mask and beard) and Face Detection 8 expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear); face snapshot set as face		ng 6 attributes nd beard) and ness, disgust,	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 sn snapshot, optimization face angle filter; optimiz	napshot, and qual		Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
	Work together with Sm	rt NVR to perform		User/Host	20 (Total bandwidth: 64 M)
Smart Search	intelligent search, event videos	extraction and me	erging to event	Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS
Video		llu quipporto d	Browser	IE: IE8, IE9, and IE11 Chrome Firefox	
Video Compression	ideo Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)		ny supported	Management Software	Smart PSS; DSS; DMSS
Smart Codec	Smart H.265+ Smart H.264+			Mobile Client	IOS; Android
Main stream: 1920 × 1080 @25/30 fps Video Frame Rate Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps Third stream: 1920 × 1080 @25/30 fps) @30 fps	Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs;	
Stream Capability 3 streams				IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade	
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				execution, musicu apgraue

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/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)
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)

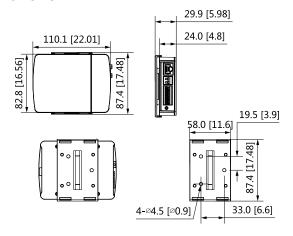
Ordering Information Type Model Description Main Box DH-IPC-HUM8241-E1 2MP Covert Pinhole WizMind Network Camera-Main Box Len IPC-HUM8241-L3 2MP Covert Pinhole WizMind Network Camera-Len Unit

Installation

Junction Mount	Plane Mount	Ceiling Mount

Dimensions (mm[inch])

DH-IPC-HUM8241-E1



IPC-HUM8241-L3

