



DH-IPC-HUM8241-E1-L4

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. 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 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 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	Technical Specification				Video Frame Rate	Main stream: 1920 × 1080 @25/30 fps Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps		
Camera								Third stream: 1920 × 1080 @25/30 fps
Image Sensor		1/2.8" CMOS					Stream Capability	3 streams
Max. Resolution		1920 (H) × 1080 (V)					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
ROM	ROM		128 MB				Bit Rate Control	CBR/VBR
RAM	RAM		512 MB				Video Bit Rate	H.264: 3 kbps–20480 kbps
Scanning Sys	Scanning System		Progressive				Day/Night	H.265: 3 kbps-20480 kbps Color/B/W
Electronic Sh	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				BLC	Yes
Min. Illumination		0.005 Lux@F2.0 (Color,30 IRE) 0.0005 Lux@F2.0 (B/W,30 IRE)					HLC	Yes
S/N Ratio	S/N Ratio		>56 dB				WDR	120 dB
Lens	Lens						Scene Self-adaptation (SSA)	Yes
Lens Type	Lens Type		Fixed-focal M12				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
	Lens Mount						Gain Control	Manual; auto
Focal Length	Focal Length		2.8 mm				Noise Reduction	3D NR
Max. Apertu	Max. Aperture		2.8 mm: F2.0				Motion Detection	OFF/ON (4 areas, rectangular)
Field of View		Horizontal: 105°; Vertical: 58°; Diagonal: 118°					Region of Interest (RoI)	Yes (4 areas)
Iris Control	Iris Control		Fixed				Defog	Yes
Close Focus	Close Focus Distance		0.5 m				Image Rotation	0°/90°/180°/270° (support 90°/270° with 1080p resolution and lower)
	Len	Detect	Observe	Recognize	Identify		Mirror	Yes
	IPC-	42.1 m	16.8 m	8.4 m	4.2 m		Privacy Masking	4 areas
DORI	HUM8241- L4	(138.1 ft)	(55.1 ft)	(27.6 ft)	(13.8 ft)		Audio	
Distance	,	,	0 ,	y) is a standard	,		Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
	distinguish pe	for defining the ability of a person viewing the video to bersons or objects within a covered area. The numbers in ont reflect intelligent function distances. For intelligent					Alarm	
	function distances, refer to installation and commissioning manual/ project design tool. Intelligence Tripwire, intrusion, fast moving (the three functions support the classification and accurate 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.		
IVS (Perimet	IVS (Perimeter Protection)		d human); loite d parking dete	ering detection, ection	people		Network	diami, face detection, and security exception.
Smart Objec	Smart Object Detection		Smart abandoned object; smart missing object				Network Port	RJ-45 (10/100 Base-T)
	Smart object Detection		Face detection; track; snapshot; snapshot optimization;					
			e attribute ext	ad; face enhand raction includin	g 6 attributes		SDK and API	Yes IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;
Face Detection		(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						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 Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				User/Host	20 (Total bandwidth: 64 M)	
						Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS	
Video		H 265: H 264: H 264H: H 264R: MIPEG (only supported					Browser	IE: IE8, IE9, and IE11 Chrome Firefox

Management Software

Firefox

Smart PSS; DSS; DMSS

H.265; H.264; H.264H; H.264B; MJPEG (only supported

by the sub stream)

Smart H.265+

Smart H.264+

Video Compression

Smart Codec

Wiz Mind | DH-IPC-HUM8241-E1-L4

Mobile Client	IOS; Android
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 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)
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.
Power Consumption	Basic: 2.3W (12V DC); 2.8W (PoE) Max. (Intelligence + WDR): 3.7W (12V DC); 4.5W (PoE)

Environment

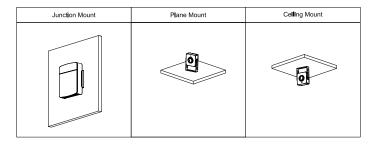
Operating Temperature	-40°C to +60°C (-40°F to 140°F)		
Operating Humidity	≤95%		
Storage Temperature	-40°C to +60°C (-40°F to 140°F)		

Structure

Casing	Metal
Product Dimensions	E1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") 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)

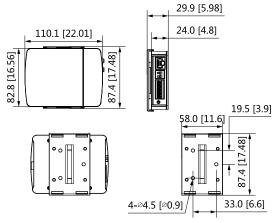
Ordering Information				
Туре	Model	Description		
Main Box	DH-IPC-HUM8241-E1	2MP Covert Pinhole WizMind Network Camera-Main Box		
Len	IPC-HUM8241-L4	2MP Covert Pinhole WizMind Network Camera-Len Unit		

Installation



Dimensions (mm[inch])

DH-IPC-HUM8241-E1



IPC-HUM8241-L4

