

DH-IPC-HUM8241-E1-L5

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 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.
- 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 Specification				Stream Capability	3 streams			
Camera				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF			
Image Sensor		1/2.8" CMOS					Resolution	(352 × 288/352 × 240)
Max. Resolution		1920 (H) × 1080 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
RAM		512 MB					Day/Night	Color/B/W
Scanning Sys	stem	Progressive					BLC	Yes
Electronic Sh	nutter Speed	Auto/Manual 1/3 s-1/100,000 s					HLC	Yes
Min. Illumina	ation	0.005 Lux@F2.0 (Color,30 IRE)					WDR	120 dB
S/N Ratio		0.0005 Lux@F2.0 (B/W,30 IRE) > 56 dB					Scene Self-adaptation (SSA)	Yes
Lens		, 55 30					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Type		Fixed-focal					Gain Control	Manual; auto
Lens Mount		M12					Noise Reduction	3D NR
Focal Length	1	2.8 mm					Motion Detection	OFF/ON (4 areas, rectangular)
Max. Apertu	re	2.8 mm: F2.0					Region of Interest (RoI)	Yes (4 areas)
		Horizontal: 109°;					Defog	Yes
Field of View		Vertical: 58°; Diagonal: 127°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
Iris Control		Fixed					Mirror	Yes
Close Focus	Distance	0.5 m					Privacy Masking	4 areas
DORI	Len	Detect	Observe	Recognize	Identify		Audio	
Distance	IPC- HUM8241-	42.9 m (140.7 ft)	17.2 m (56.4 ft)	8.6 m (28.2 ft)	4.3 m (14.1 ft)		Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
	L5	(140.7 10)	(50.411)	(20.2 11)	(14.110)		Alarm	
Intelligence Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection		ection people		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.			
Smart Objec	t Detection	Smart abandoned object; smart missing object Face detection; track; snapshot; snapshot optimization;					Network	, , , , ,
		optimal face snapshot upload; face enhancement; face exposure; face attribute extraction including 6 attributes					Network Port	RJ-45 (10/100 Base-T)
Face Detecti	on		(gender, age, glasses, expressions, mask and beard) and 8 expressions (anger, calm, happiness, sadness, disgust,				SDK and API	Yes
		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					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
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Video			User/Host	20 (Total bandwidth: 64 M)				
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported					Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Smart Code		by the sub stream) Smart H.265+ Smart H.264+					Browser	IE: IE8, IE9, and IE11 Chrome Firefox
Vidoo Franci	V6.1 . 5		Main stream: 1920 × 1080 @25/30 fps				Management Software	Smart PSS; DSS; DMSS
Video Frame Rate		Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps Third stream: 1920 × 1080 @25/30 fps					Mobile Client	IOS; Android

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

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 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") L5: 35 mm × 35 mm × 28.4 mm (1.38" × 1.38" × 1.12")
Net Weight	210 g (0.5 lb)
Gross Weight	376 g (0.8 lb)

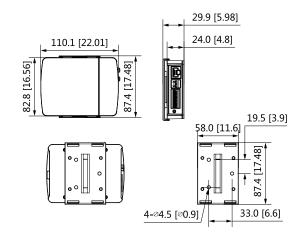
Ordering Information Type Model Description Main Box DH-IPC-HUM8241-E1 2MP Covert Pinhole WizMind Network Camera-Main Box Len IPC-HUM8241-L5 2MP Covert Pinhole WizMind Network Camera-Len Unit

Installation

Junction Mount	Plane Mount	Ceiling Mount

Dimensions (mm[inch])

DH-IPC-HUM8241-E1



IPC-HUM8241-L5

