

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	Specification	on				Bit Rate Control
Camera						Video Bit Rate
Image Sensor 1/2.8" CMOS			Day/Night			
∕lax. Resolu	Resolution 1920 (H) × 1080 (V)			BLC		
MOM		128 MB				HLC
AM		512 MB			WDR	
Scanning Sys	stem	Progressive				Scene Self-adaptation
Electronic Sh	nutter Speed	Auto/Manual 1/3 s–1/100,000 s			(SSA) White Balance	
Min. Illumina	ation	0.005 Lux@F2.0 (Color,30 IRE)				
S/N Ratio		0.0005 Lux@F2.0 (B/W,30 IRE) > 56 dB			Gain Control	
		, 55 45				Noise Reduction
Lens		Fixed fa				Motion Detection
Lens Type		Fixed-focal				Region of Interest (RoI)
ens Mount		M12				Defog
ocal Length		2.8 mm				Image Rotation
Max. Apertu	re	2.8 mm: F2.0				Mirror
ield of View	1	Horizontal: 105°; Vertical: 58°;		Privacy Masking		
uio Combuol		Diagonal: 118 Fixed				Audio
Iris Control	D					Audio Compression
Close Focus		0.5 m				Alarm
OORI 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
Intelligen	ce	Trinwire intru	sion fast mov	ring (the three f	unctions	
VS (Perimet	er Protection)	support the cl	assification ar	nd accurate detering detection,	ection	Network
		gathering, and			FF	Network Port
		optimal face s	napshot uploa	hot; snapshot o ad; face enhanc	ement; face	SDK and API
Face Detecti	on	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	
		or one-inch pl snapshot, opt	noto; 3 snapsh mization snap	not strategies (researches) shot, and qualion time setting	eal-time	Interoperability
		Work togethe	r with Smart N	IVR to perform		User/Host
Smart Search		intelligent search, event extraction and merging to event videos		Storage		
Video H.265; H.264; H.264H; H.264B; MJPEG (only supported		Browser				
Video Compression		by the sub stream)			Management Software	
Smart Codeo		Smart H.265+ Smart H.264+			Mobile Client	
Video Frame	e Rate	Sub stream: 7	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 Capa	bility	3 streams				

1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)

Resolution

Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps		
Day/Night	Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Manual; auto		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Defog	Yes		
Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723		
Alarm			
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.		
Network			
Network Port	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
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		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec		
User/Host	20 (Total bandwidth: 64 M)		
Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS		

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-E 2014	/D:EN62368-1; MC:Electromagnetic Compatibility Directive ł/30/EU; 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)

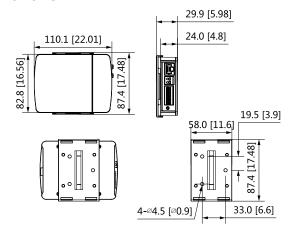
Ordering Information			
Туре	Model	Description	
Main Box	DH-IPC-HUM8241-E1	2MP Covert Pinhole WizMind Network Camera-Main Box	
Len	IPC-HUM8241-L1	2MP Covert Pinhole WizMind Network Camera-Len Unit	

Installation

Junction Mount	Junction Mount	Cel l ing Mount	

Dimensions (mm[inch])

DH-IPC-HUM8241-E1



IPC-HUM8241-L1

