

DH-IPC-HUM8441-E1-L5

4MP 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 4MP 1/2.7" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 4MP (2688 × 1520)@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	CBR/VBR
Camera			Vio	deo Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps			
Image Sensor		1/2.7" CMOS				Da	y/Night	Color/B/W
Max. Resolution		2688 (H) × 1520(V)				BL	С	Yes
ROM		128 MB				HL	С	Yes
RAM		1 GB				WI	DR	120 dB
Scanning Syst	tem	Progressive				ene Self-adaptation	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				(SS	hite Balance	Auto; natural; street lamp; outdoor; manual; regional
Min. Illumination		0.005 Lux@F2.0 (Color,30 IRE)						custom
S/N Ratio		0.0005 Lux@F2.0 (B/W,30 IRE) >56 dB					in Control	Manual; auto 3D NR
Lens		> 30 dB					oise Reduction	OFF/ON (4 areas, rectangular)
Lens Type		Fixed-focal					gion of Interest (RoI)	Yes (4 areas)
Lens Mount		M12					efog	Yes
		2.8 mm						0°/90°/180°/270° (Support 90°/270° with 1080p
Focal Length						lm	age Rotation	resolution and lower)
Max. Aperture		2.8 mm: F2.0				Mi	rror	Yes
Field of View		Horizontal: 105°; Vertical: 56°;				Pri	ivacy Masking	4 areas
Iris Control		Diagonal: 122° Fixed				Αι	udio	
Close Focus Distance		2.8 mm: 0.8 m					dio Compression	G.711a; G.711Mu; PCM; G.726; G.723
0.030 1 0003 2	Len	Detect	Observe	Recognize	Identify	Al	arm	
DORI Distance	IPC- HUM8441- L5	61 m (200.1 ft)	24.4 m (80.1 ft)	12.2 m (40.0 ft)	6.1 m (20.0 ft)	Ala	arm 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
J		Tripwire, intru	usion, fast mov	ing (the three f	unctions			alarm, face detection , and security exception
IVS (Perimete	er Protection)	support the classification and accurate detection of vehicle and human); loitering detection, people					etwork	
		gathering, and parking detection			ontimization:		etwork Port	RJ-45 (10/100 Base-T)
		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face 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			ement; face	SD	K and API	Yes
Face Detection	on				Ne	etwork 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				Int	eroperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Smart Search		Work together with Smart NVR to perform refine				Us	er/Host	20 (Total bandwidth: 64 M)
Jiliai t Seal Cli		intelligent search, event extraction and merging to event videos		ibile to evelit	Sto	orage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Video Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported			Bro	owser	IE: IE8, IE9, and IE11 Chrome Firefox	
•		by the sub stream) Smart H.265+			Ma	anagement Software	Smart PSS; DSS; DMSS	
Smart Codec		Smart H.264+				Mo	obile Client	IOS; Android
Video Frame Rate		Main stream: 2688 × 1520 @25/30 fps Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps Third stream: 1920 × 1080 @25/30 fps			@30 fps	CV	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
Stream Capability		3 streams				Cy		
Resolution		1536);1080p (1280 × 720);	(1920 × 1080);	60 × 1440); 3N 960p (1280 × 9 6/704 × 480); C 480)	960); 720p			

Certification

Certifications CE-	-LVD:EN62368-1; -EMC:Electromagnetic Compatibility Directive 14/30/EU; C: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/500mA 50V DC

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic: 2.4W (12V DC); 3W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (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)

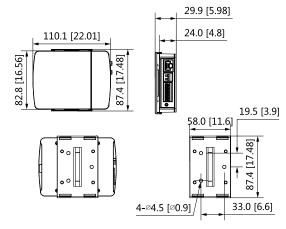
Ordering Information			
Туре	Model	Description	
Main Box	DH-IPC-HUM8441-E1	4MP Covert Pinhole WizMind Network Camera-Main Box	
Len	IPC-HUM8441-L5	4MP Covert Pinhole WizMind Network Camera-Len Unit	

Installation

Junction Mount	Plane Mount	Ce ili ng Mount

Dimensions (mm[inch])

DH-IPC-HUM8441-E1



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