

DH-IPC-HUM8441E-E1-L5

4MP Covert Pinhole WizMind Network Camera-KIT-L5







Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,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

Dahua Pinhole series network camera includes one-in-all camera and separated camera. Separated camera can work with different lens to meet the requirements in different installation scenes. Pinhole Series camera is widely applied in hidden or small scenes such as banks and advertising screen.

Functions

Al Coding

Through Dahua AI Coding technology, the camera adopts advanced scene adaptive bit rate control algorithms to improve the efficiency of coding using H.265 and H.264 codecs. It offers the basic bit rate control technologies of constant bitrate (CBR) and variable bitrate (VBR), along with the new average bitrate (ABR). ABR allocates bit rate in each period more reasonably under expected storage conditions, and combines the advantages of CBR's maintenance of bit rate stability over the long term and VBR's prioritization of image quality over the short term.

- * The parameters and datasheets below can only be applied to 8441-S3 series.
- 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 4 MP (2688 × 1520) @50/60 fps.
- ROI, AI H.264 /H.265, flexible coding, applicable to various bandwidth and storage environments.
- LDC, rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports: Face detection, IVS,
 Smart object detection, People counting, Acupick, etc.
- Privacy Protection: Mosaics can be automatically placed over the face or body of a person to protect their privacy.
- Alarm: 2 in, 2 out; audio: 1 in, 1 out; max. 512 G Micro SD card.
- 12 VDC/PoE power supply, easy for installation.
- The Network Camera Main Box connects to the lens through the included 8 m coaxial cable.
- · Supports dual power backup.











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.

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.

People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

Technical Specificatio	n						People Counting	queue management; 4 rules can be set for tripwire, people counting in area and queue management.
Camera				Privacy Protection	Mosaics can be automatically placed over the face or			
Image Sensor	1/2.7" CMOS						Trivacy Protection	body of a person to protect their privacy
Max. Resolution	2688 (H) × 1520 (V)						Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to
ROM	256 MB							event videos
RAM	1 GB				Video			
Scanning System Progressive					H.265; H.264; H.264H; H.264B; MJPEG (Only supported			
Electronic Shutter Speed	Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s						Video Compression	by sub stream)
Min. Illumination		9F2.0 (Color @F2.0 (B/W					Al Coding	Al H.265; Al H.264
S/N Ratio	>56 dB						Video Frame Rate	Main stream: 2688 × 1520@(1–50/60 fps) sub stream: 1920 × 1080@(1–25/30 fps) third stream: 1920 × 1080@(1–25/30 fps) *High frame rate of main stream is supported under monitoring mode only Note: Al/WDR cannot be enabled at the same time as
Lens								
Lens Type	Fixed-foca	I						
Lens Mount	M12	M12					high frame rate.	
Focal Length	2.8 mm				Streaming Capability	3 streams		
Max. Aperture	F2.0				Resolution	4M (2688 × 1520/2560 × 1440); 3M (2048 × 1536); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Field of View	H: 104°; V: 56°; D: 121°							
Iris Control	Fixed				Bit Rate Control	VBR;CBR;ABR		
Close Focus Distance	0.8 m (2.6	2 ft)					Video Bit Rate	H.264: 3 kbps–16384 kbps;
	Lens	Detect	Observe	Recognize	Identify			H.265: 3 kbps–16384 kbps
		62.0 m	24.8 m	12.4 m	6.2 m		Day/Night	Color/B/W
	2.8 mm	(203.41 ft)	(81.36 ft)	(40.68 ft)	(20.34 ft)		BLC	Yes
	*DORI (De	etect, Obse	rve, Recog		y) is		HLC	Yes
DORI Distance	a standar	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a					WDR	120 dB
							Scene Self-adaptation (SSA)	Yes
	covered area. The numbers in this table do not reflect intelligent function distances. For						White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
	intelligent function distances, refer to installation and commissioning manual/project design tool.						Gain Control	Auto/Manual
Intelligence							Noise Reduction	3D NR
Tripwire, intrusion, fast moving (the three functions			Motion Detection	OFF/ON (4 areas, rectangular)				
IVS (Perimeter Protection)	support the classification and accurate detection of vehicle and human); loitering detection, people						Region of Interest (RoI)	Yes (4 areas)
gathering, and parking detection.				Defog	Yes			
Smart Object Detection	Smart abandoned object; smart missing object				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)		
AcuPick	devices to	Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people,					Mirror	Yes
/ tear reix	animal and motor vehicles, and search through live and recorded videos to quickly locate targets.						Privacy Masking	4 areas
		Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality					LDC	Yes
							Audio	
Face Detection							Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
	priority an		on snapsho	t); face angle				
				ple counting	in area:			
People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/month/year);							

Alarm			
, notifi	No SD card; SD card full; SD card error; network		
Alarm Event	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; people counting; people number error detection; 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; P2P; Bonjour; Auto Registration		
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. 512 G); NAS		
Browser	IE: IE8, IE9, and IE11; Chrome; Firefox		
Management Software	Smart PSS; DSS; DMSS; DoLynk Care		
Mobile Client	iOS;Android		
Security	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;Session security;Security warning		
Certification			
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU;		
Port			
Audio Input	1 channel (3.5mm JACK port)		
Audio Output	1 channel (3.5mm JACK port)		
Alarm Input	2 channels in: wet contact, 5 mA 3–5 VDC		
Alarm Output	2 channels out: dry contact, 1,000 mA 30 VDC/500 mA 50 VAC		
Power			
Power Supply	12 VDC; 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: 4.28 W (12 VDC); 6 W (PoE) Max.: 6.7 W (12 VDC); 8.6 W (PoE) (High frame rate + Intelligence on + WDR)		
Environment			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95% (RH), non-condensing		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		

Storage Humidity	≤95% (RH), non-condensing		
Structure			
Casing Material	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	511 g (1.13 lb)		
Gross Weight	646 g (1.42 lb)		

Ordering Information				
Туре	Model	Description		
IP CAMERA	DH-IPC-HUM8441E-E1-L5	4MP Covert Pinhole WizMind Network Camera- KIT-L5		
Accessories (Optional)	DH-PFM321-EN	DC12V1A power adapter		
	DH-PFM320D-EN	DC12V2A power adapter		
	PFM900-E	Integrated Mount Tester		
	DHI-TF-P100/512GB	MicroSD Card		

Accessories

Optional:







DH-PFM320D-EN

DH-PFM321-EN DC12V2A power adapter DC12V1A power adapter

DHI-TF-P100/512GB MicroSD Card



PFM900-E Integrated Mount Tester

Junction Mount	Ceiling Mount	Plane Mount
	5	

Dimensions (mm[inch])

