



DH-IPC-HUM8241E-E1-L3-S2

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 2-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- ROI, SMART H.264+/H.265+, AI 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, video tampering, scene changing, audio detection, no SD card, SD card full, 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
- 12 VDC/PoE power supply, easy for installation.
- The Network Camera Main Box connects to the lens through the included 8 m coaxial cable.
- · IP67 protection (L3).
- · 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 camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Technical	Specification	on						Main stream: 1920 × 1080@(1–25/30 fps)
Camera						Video Frame Rate	sub stream: 704 × 576 (1–25 fps)/704 × 480@(1–30 fps) third stream: 1920 × 1080@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Image Sensor		1/2.7" CMOS						
Max. Resolution		1920 (H) × 1080 (V)				Stream Capability	3 streams	
ROM		128 MB				on cam capasine,	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280	
RAM		512 MB				Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Scanning System		Progressive				Bit Rate Control	CBR/VBR	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				Video Bit Rate	H.264: 3 kbps–20480 kbps; H.265: 3 kbps–20480 kbps	
Min. Illumina	ation	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE)				Day/Night	Color/B/W	
S/N Ratio		>56 dB				BLC	Yes	
Lens						HLC	Yes	
Lens Type		Fixed-focal				WDR	120 dB	
Lens Mount		M12				Scene Self-adaptation	Yes	
Focal Length		2.8 mm				(SSA)	Auto; natural; street lamp; outdoor; manual; regional	
Max. Aperture		F1.6				White Balance	custom	
Field of View		H: 109°; V: 58°; D: 127°				Gain Control	Auto; Manual	
Iris Control		Fixed				Noise Reduction	3D NR	
Close Focus Distance		0.7 m (2.30 ft)				Motion Detection	OFF/ON (4 areas, rectangular)	
	Lens	Detect	Observe	Recognize	Identify		Region of Interest (RoI)	Yes (4 areas)
	2.8 mm	43.9 m (144.03 ft)	17.5 m (57.41 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)		Defog	Yes
Distance (EN-62676-4) distinguish per this table do		ct, Observe, Recognize, Identify) is a standard system I for defining the ability of a person viewing the video to ersons or objects within a covered area. The numbers in not reflect intelligent function distances. For intelligent ances, refer to installation and commissioning manual/				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080P$ resolution and lower)	
						Mirror	Yes	
						Privacy Masking	8 areas	
Intelligen	ce						Audio	
		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection				Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723; PCM	
IVS (Perimet	er Protection)	of vehicle and human); loitering detection, people gathering, and parking detection				Alarm		
Smart Object Detection Face Detection		Smart abandoned object; smart missing object Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting				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; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; security exception	
						Network		
						Network Port	RJ-45 (10/100 Base-T)	
		Work together with Smart NVR to perform refine				SDK and API	Yes	
Smart Search		intelligent search, event extraction and merging to event videos				Video encryption; firmware encryption; configuration encryption; digest; WSSE; account lockout; security logs;		
Video Comp			H.265; H.264; H.264H; H.264B; MJPEG (Only supported			Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
Video Comp		by the sub str	eam)					IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;
Smart Codeo		Smart H.265+	-;Smart H.264+				Network Protocol	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

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User/Host	20 (Total bandwidth: 64 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS		
Browser	IE Chrome Firefox		
Management Software	SmartPSS Lite; DSS; DMSS		
Mobile Client	iOS; Android		

Certification

CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B	
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Port

Audio Input	1 channel (3.5mm JACK port)
Audio Output	1 channel (3.5mm JACK port)
Alarm Input	2 channels in: 5mA 3V–5V DC
Alarm Output	2 channels out: max. 1,000 mA 30 VDC/max. 500 mA 50 VAC

Power

Power Supply	12 VDC/PoE
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: 2.4 W (12 VDC); 3.2 W (PoE) Max. (Intelligence + WDR): 3.8 W (12 VDC); 4.5 W (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)
Protection	IP67 (L3)

Structure

Casing	Metal
Product Dimensions	E1: 110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") L3: Φ30.5 mm × 55.4 mm (Φ1.20" × 2.18")
Net Weight	554 g (1.22 lb)
Gross Weight	724 g (1.60 lb)

Ordering Information			
Туре	Model	Description	
Main Box	DH-IPC-HUM8241-E1	2MP Covert Pinhole WizMind Network Camera-Main Box	
Len	IPC-HUM8241E-L3-S2	2MP Covert Phinhole WizMind Netwok Camera-Lens Unit	
Accessories	PFM321D	12 VDC 1 A Power Adapter	
(Optional)	TF-P100	MicroSD Memory Card	

Accessories

Optional:



PFM321D 12 VDC 1 A Power Adapter

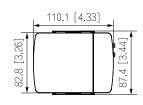


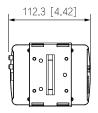
TF-P100 MicroSD Memory Card

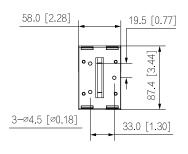
Ceiling Mount	Plane Mount	Junction Mount	

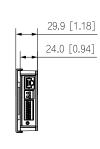
Dimensions (mm[inch])

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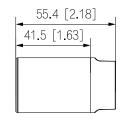


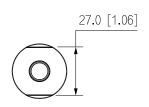


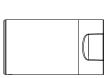


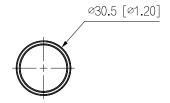


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