



DH-IPC-HUM8241-E1

2MP Covert Pinhole WizMind Network Camera-Main Box





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.
- IP67 protection (L3).
- Multiple lens unit optional; require a lens unit to work together.













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					Main stream: 1920 × 1080@(1–25/30 fps) sub stream: 704 × 576 (1–25 fps)/704 × 480@(1–30 fps)			
Camera						Video Frame Rate	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				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF	
RAM		512 MB					(352 × 288/352 × 240)	
Scanning System		Progressive				Bit Rate Control	CBR/VBR	
Electronic Sh	utter 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		6 (Color, 30 II 1.6 (B/W, 30 I				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. Apertu	re	L1/L4/L5: F2.0 L3: F1.6			White Balance	custom		
		L1/L4: Horizontal: 105°; Vertical: 58°; Diagonal: 118°			Gain Control	Auto; Manual		
Field of View		L3: Horizontal: 109°; Vertical: 58°; Diagonal: 127° L5: Horizontal: 109°; Vertical: 58°; Diagonal: 127°			Noise Reduction	3D NR		
Iris Control		Fixed			Motion Detection	OFF/ON (4 areas, rectangular)		
Close Focus	Distance	0.5 m			Region of Interest (RoI)	Yes (4 areas)		
	Lens	Detect	Observe	Recognize	Identify		Defog	Yes
DORI	L1/L4-2.8 mm	42.1 m (138.12 ft)	16.8 m (55.12 ft)	8.4 m (27.56 ft)	4.2 m (13.78 ft)		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080P$ resolution and lower)
Distance	L3-2.8 mm	43.9 m	17.5 m	8.8 m	4.4 m		Mirror	Yes
		(144.03 ft) 42.9 m	(57.41 ft) 17.2 m	(28.87 ft) 8.6 m	(14.44 ft) 4.3 m		Privacy Masking	8 areas
	L5-2.8 mm	(140.75 ft)	(56.43 ft)	(28.22 ft)	(14.11 ft)		Audio	
Intelligen	ce						Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723; PCM
IVS (Perimet	er Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection			Alarm			
TV5 (I CIIIICE	er roccetion,	of vehicle and human); loitering detection, people gathering, and parking detection			disconnection; IP conflict; illegal acc detection; video tampering; tripwire Alarm Event moving; abandoned object; missing detection; people gathering; parking changing; audio detection; voltage of	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion		
Smart Objec	t Detection	Smart abandoned object; smart missing object				detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering		
		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes				detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; security exception		
Face Detecti	on	(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,			Network			
					Network Port	RJ-45 (10/100 Base-T)		
		quality priority and optimization snapshot); face angle filter; optimization time setting			SDK and API	Yes		
Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos			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				
Video								execution; trusted upgrade
Video Comp	ression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)			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 Codec Smart H.265+;Smart H.264+				widilicast, icivir, icivir, info, salvida; prpue; sinivip				

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 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
Certifications	2014/30/EU;
	FCC: 47 CFR FCC Part 15, Subpart B

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
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	
2MP Camera	DH-IPC-HUM8241-E1	2MP Covert Pinhole WizMind Network Camera-Main Box	
	IPC-HUM8241-L1	2MP Covert Pinhole WizMind Network Camera-Lens Unit	
Accessories	IPC-HUM8241-L3-S2	2MP Covert Pinhole WizMind Network Camera-Lens Unit	
(Optional)	IPC-HUM8241-L4	2MP Covert Pinhole WizMind Network Camera-Lens Unit	
	IPC-HUM8241-L5	2MP Covert Pinhole WizMind Network Camera-Lens Unit	

Accessories

Optional



IPC-HUM8241-L1 2MP Covert Pinhole WizMind Network Camera-Lens Unit



IPC-HUM8241-L3-S2 2MP Covert Pinhole WizMind Network Camera-Lens Unit



IPC-HUM8241-L4 2MP Covert Pinhole WizMind Network Camera-Lens Unit



IPC-HUM8241-L5 2MP Covert Pinhole WizMind Network Camera-Lens Unit

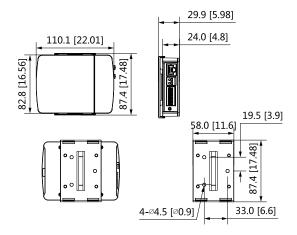
Junction Mount	Junction Mount	Ceiling Mount

Ceiling Mount	Plane Mount	Plane Mount

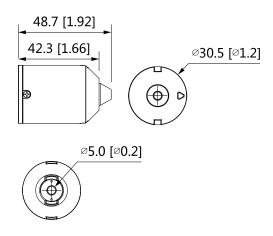
Celling Mount	Plane Mount	Celling Mount

Dimensions (mm[inch])

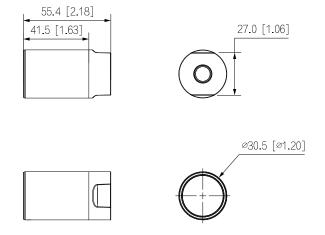
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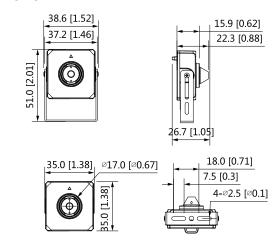
IPC-HUM8241-L1



IPC-HUM8241-L3-S2



IPC-HUM8241-L4



IPC-HUM8241-L5

