



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 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 allows 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
- · 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.
- Multiple lens unit optional; require a lens unit to work together.













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					1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Camera						Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.8" 2 Megapixel progressive CMOS				Bit Rate Control	CBR/VBR
Max. Resolution		1920 (H) × 1080 (V)				Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
ROM		128 MB				Day/Night	Color/B/W
RAM		512 MB				BLC	Yes
Scanning Sys	stem	Progressive				HLC	Yes
Electronic Sh	nutter Speed	Auto/Manual 1/3 s-1/100,000 s				WDR	120 dB
Min. Illumina	ation	0.005 Lux@F2.0 (Color,30 IRE)				Scene Self-adaptation	Yes
S/N Ratio		0.0005 Lux@F2.0 (B/W,30 IRE) > 56 dB				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
		> 30 db				Gain Control	Manual; auto
Lens						Noise Reduction	3D NR
Lens Type		Fixed-focal				Motion Detection	OFF/ON (4 areas, rectangular)
Lens Mount		M12				Region of Interest (RoI)	Yes (4 areas)
Focal Length	1	2.8 mm				Defog	Yes
Max. Aperture		2.8 mm: F2.0 L1/L4: Horizontal: 105°; Vertical: 58°; Diagonal: 118°		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)		
Field of View	Field of View		L3: Horizontal: 114°; Vertical: 60°; Diagonal: 136° L5-2.8 mm: Horizontal: 109°; Vertical: 58°; Diagonal: 127°		Mirror	Yes	
Iris Control		Fixed				Privacy Masking	4 areas
Close Focus	Distance	2.8 mm: 0.5 m		Audio			
	Lens	Detect	Observe	Recognize	Identify	Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
	L1/L4-2.8 mm	42.1 m (138.1 ft)	16.8 m (55.1 ft)	8.4 m (27.6 ft)	4.2 m (13.8 ft)	Alarm	
DORI Distance	L3-2.8 mm	41.4 m (135.8 ft) 42.9 m (140.7 ft)	16.6 m (54.5 ft) 17.2 m (56.4 ft)	8.3 m (60.0 ft) 8.6 m (28.2 ft)	4.1 m (13.5 ft) 4.3 m (14.1 ft)	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
Intelligen	ce						alarm, face detection, and security exception.
		Tripwire, intrusion, fast moving (the three functions				Network	
IVS (Perimet	er Protection)	support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection			Network Port	RJ-45 (10/100 Base-T)	
		Face detection; track; snapshot; snapshot optimization;			SDK and API	Yes	
Face Detecti	ion	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 or one-inch photo; 3 snapshot strategies (real-time snapshot, optimization snapshot, and quality priority);			ng 6 attributes nd beard) and	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
					eal-time	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
		face angle filter; optimization time setting			6	User/Host	20 (Total bandwidth: 64 M)
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event		Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS		
Video	Video		videos			Browser	IE: IE8, IE9, and IE11 Chrome Firefox
Video Comp	Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)			Management Software	Smart PSS; DSS; DMSS
Smart Codec		Smart H.265+ Smart H.264+				Mobile Client	IOS; Android
Video Frame	Video Frame Rate		Main stream: 1920 × 1080 @25/30 fps Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps Third stream: 1920 × 1080 @25/30 fps			Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509
Stream Capa	Stream Capability		3 streams			certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade	

Certification

Certifications	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 (3.5 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)
Protection	IP66 (L3)

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") L3: Φ30.5 mm × 57.6 mm (Φ1.20" × 2.27") L4: 35 mm × 35 mm × 26.7 mm (1.38" × 1.38" × 1.05") 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 Description Type Model 2MP 2MP Covert Pinhole WizMind DH-IPC-HUM8241-E1 Network Camera-Main Box Camera 2MP Covert Pinhole WizMind IPC-HUM8241-L1 Network Camera-Lens Unit 2MP Covert Pinhole WizMind IPC-HUM8241-L3 Network Camera-Lens Unit Accessories (Optional) 2MP Covert Pinhole WizMind IPC-HUM8241-L4 Network Camera-Lens Unit 2MP Covert Pinhole WizMind IPC-HUM8241-L5 Network Camera-Lens Unit

Accessories

Optional







IPC-HUM8241-L3 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

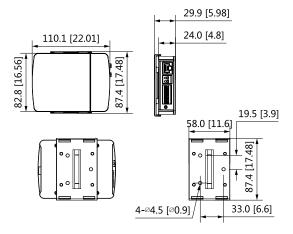
Junction Mount	Junction Mount	Ceiling Mount

Plane Mount	Ce ili ng Mount	Plane Mount
	SS	

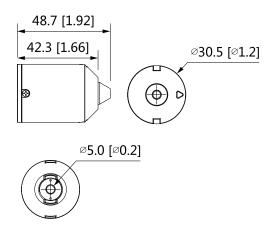
Celling Mount	Plane Mount	Celling Mount

Dimensions (mm[inch])

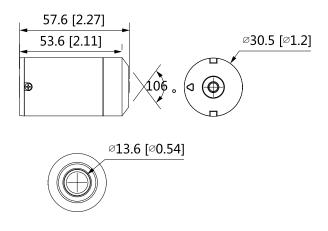
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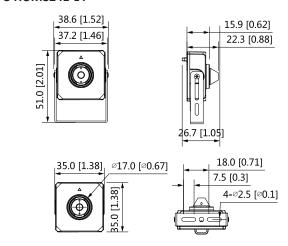
IPC-HUM8241-L1



IPC-HUM8241-L3



IPC-HUM8241-L4



IPC-HUM8241-L5

