



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					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	RAM					BLC	Yes	
Scanning Sys	Scanning System					HLC	Yes	
Electronic Sh	Electronic Shutter Speed		1/3 s-1/100,0	000 s		WDR	120 dB	
Min. Illumina	Min. Illumination		2.0 (Color,30 IF			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 ub				Gain Control	Manual; auto	
Lens		Short family				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			tical: 58°; Diago		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)	
Field of View		L3: Horizontal: 114°; Vertical: 60°; Diagonal: 136° L5-2.8 mm: Horizontal: 109°; Vertical: 58°; Diagonal: 127°				Mirror	Yes	
Iris Control	Iris Control					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	
		alarm, face detection, and security exception.						
		Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection				Network		
IVS (Perimet	IVS (Perimeter Protection)			ering detection,		Network Port	RJ-45 (10/100 Base-T)	
	Face Detection		n; track; snaps	hot; snapshot		SDK and API	Yes	
Face Detecti			e attribute ext glasses, expre	ad; face enhand raction includir ssions, mask ar happiness, sad	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	
			hoto; 3 snapsh	r); face snapsho not strategies (r oshot, and qual	eal-time	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
				on time setting	6	User/Host	20 (Total bandwidth: 64 M)	
Smart Searc	Smart Search			IVR to perform raction and me		Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Video		videos				Browser	IE: IE8, IE9, and IE11 Chrome Firefox	
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 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 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade	
Stream Capability		3 streams						

Accessories

Optional



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



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



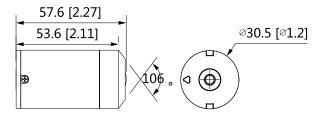
IPC-HUM8241-L4 2MP Covert Pinhole WizMind Network Camera-Lens Unit

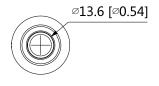
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IPC-HUM8241-L5 2MP Covert Pinhole WizMind Network Camera-Lens Unit

Dimensions (mm[inch])

IPC-HUM8241-L1





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	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				