



# DH-IPC-HUM8441-E1

# 4MP Covert Phinhole WizMind Netwok 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 4MP 1/2.7" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 4MP (2688 × 1520)@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				Resolution	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536);1080p (1920 × 1080); 960p (1280 × 960); 720p
Camera							(1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)
Image Senso	r	1/2.7" 4 Meg	apixel progress	sive CMOS		Bit Rate Control	CBR/VBR
Max. Resolut	tion	2688 (H) × 15	520 (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		1 GB				BLC	Yes
Scanning Sys	tem	Progressive				HLC	Yes
Electronic Sh	utter Speed	Auto/Manual	1/3 s-1/100,0	000 s		WDR	120 dB
Min. Illumina	ation		2.0 (Color,30 IF F2.0 (B/W,30 II			Scene Self-adaptation	Yes
S/N Ratio		>56 dB				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens						Gain Control	Manual; auto
Lens Type		Fixed-focal				Noise Reduction	3D NR
Lens Mount		M12				Motion Detection	OFF/ON (4 areas, rectangular)
Focal Length		2.8 mm				Region of Interest (RoI)	Yes (4 areas)
Max. Apertu	re	2.8 mm: F2.0				Defog	Yes
Field of View	,	L3: Horizonta	l: 109°; Vertica	ıl: 57°; Diagona ıl: 57°; Diagona	al: 129°	Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
ricia di view				ll: 57°; Diagona ll: 56°; Diagona		Mirror	Yes
Iris Control		Fixed				Privacy Masking	4 areas
Close Focus	Distance	2.8 mm: 0.8 r	n			Audio	
	Lens	Detect	Observe	Recognize	Identify	Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
	L1/L4-2.8 mm	61 m (200.1 ft)	24.4 m (80.1 ft)	12.2 m (40.0 ft)	6.1 m (20.0 ft)	Alarm	
DORI Distance	L3-2.8 mm	60 m (196.9 ft) 61 m (200.1 ft)	24 m (78.7 ft) 24.4 m (80.1 ft)	12 m (39.4 ft) 12.2 m (40.0 ft)	6 m (19.7 ft) 6.1 m (20.0 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
Intelligen	ce	Tripwire, intru	usion. fast mov	ving (the three t	functions	Network	
IVS (Perimet	er Protection)	support the co	lassification ar	nd accurate det ering detection,	ection	Network Port	RJ-45 (10/100 Base-T)
		Face detectio	n; track; snaps	hot; snapshot o		SDK and API	Yes
Face Detecti	on	exposure; fac (gender, age,	e attribute ext glasses, expre	ad; face enhand raction includir ssions, mask an happiness, sadi	ng 6 attributes nd beard) and	Network Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTN SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
		surprise, conf or one-inch p	fusion and fear hoto; 3 snapsh	r); face snapsho not strategies (roshot, and qual	ot set as face real-time	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milesto Genetec
		face angle filt	er; optimizatio	on time setting	, , , , , , ,	User/Host	20 (Total bandwidth: 64 M)
Smart Search	n	-		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 Comp	ression	H.265; H.264 by the sub str		4B; MJPEG (on	ly supported	Management Software	Smart PSS; DSS; DMSS
Smart Coded		Smart H.265+ Smart H.264+				Mobile Client	IOS; Android
Video Frame	Rate	Main stream: 7	2688 × 1520 (	fps; 704 × 480	@30 fps	Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security lo IP/MAC filtering; Generation and importing of X.509
Stream Capa	bility	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/500mA 50V DC

## Power

Power Supply	12V DC/PoE(802.3af)
Power Consumption	Basic: 2.4W (12V DC); 3W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (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	
Туре	Model	Description
4MP Camera	DH-IPC-HUM8441-E1	4MP Covert Phinhole WizMind Netwok Camera-Main Box
	IPC-HUM8441-L1	4MP Covert Phinhole WizMind Netwok Camera-Lens Unit
Accessories	IPC-HUM8441-L3	4MP Covert Phinhole WizMind Netwok Camera-Lens Unit
(Optional)	IPC-HUM8441-L4	4MP Covert Phinhole WizMind Netwok Camera-Lens Unit
	IPC-HUM8441-L5	4MP Covert Phinhole WizMind Netwok Camera-Lens Unit

# Accessories

# Optional



IPC-HUM8441-L1 4MP Covert Phinhole WizMind Netwok Camera-Lens Unit



IPC-HUM8441-L3 4MP Covert Phinhole WizMind Netwok Camera-Lens Unit



IPC-HUM8441-L4 4MP Covert Phinhole WizMind Netwok Camera-Lens Unit



IPC-HUM8441-L5 4MP Covert Phinhole WizMind Netwok Camera-Lens Unit

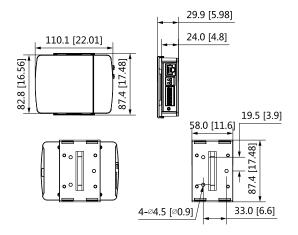
Junction Mount	Junction Mount	Ceiling Mount

P <b>l</b> ane Mount	Ceiling Mount	Plane Mount
	<b>33</b>	

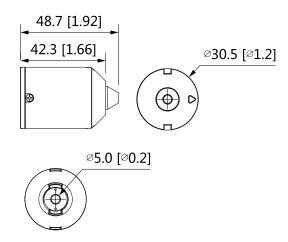
\display \( \frac{1}{2} \)

## Dimensions (mm[inch])

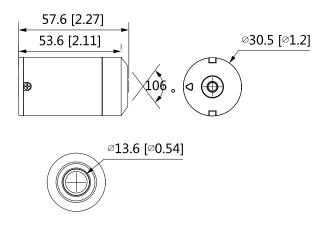
## IPC-HUM8441-E1



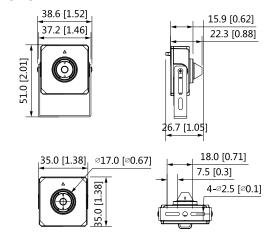
#### IPC-HUM8441-L1



## IPC-HUM8441-L3



## IPC-HUM8441-L4



#### IPC-HUM8441-L5

