

DH-IPC-HUM8241E-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, IVSS,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

Dahua Pinhole series network camera includes one-in-all camera and separated camera. Separated camera can work with different lens to meet the requirements in different installation scenes. Pinhole Series camera is widely applied in hidden or small scenes such as banks and advertising screen.

Functions

AI Coding

Through Dahua AI Coding technology, the camera adopts advanced scene adaptive bit rate control algorithms to improve the efficiency of coding using H.265 and H.264 codecs. It offers the basic bit rate control technologies of constant bitrate (CBR) and variable bitrate (VBR), along with the new average bitrate (ABR). ABR allocates bit rate in each period more reasonably under expected storage conditions, and combines the advantages of CBR's maintenance of bit rate stability over the long term and VBR's prioritization of image quality over the short term.

- * The parameters and datasheets below can only be applied to 8241-S3 series.
- 2-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 2 MP (1920 × 1080) @50/60 fps.
- ROI, 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.
- With deep learning algorithm, it supports: Face detection, IVS,
 Smart object detection, People counting, Acupick, etc.
- Privacy Protection: Mosaics can be automatically placed over the face or body of a person to protect their privacy.
- · Alarm: 2 in, 2 out; audio: 1 in, 1 out; max. 512 G Micro SD card.
- 12 VDC/PoE power supply, easy for installation.
- · Supports dual power backup.











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.

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.

People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

Image Sensor	Technical Specification		
Max. Resolution 1920 (H) × 1080 (V) ROM 256 MB RAM 1GB Scanning System Progressive Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s Min. Illumination 0.005 lux@F2.0 (Color, 30 IRE) 0.0005 lux@F2.0 (B/W, 30 IRE) S/N Ratio >56 dB Intelligence Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection, people gathering, and parking detection, people gathering, and parking detection, people ganinal and motor vehicles, and search through live and recorded videos to accurately match targets, such as people, animal and motor vehicles, and search through live and recorded videos to quickly locate targets. Face Detection Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot upload; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting. Tripwire people counting and people counting in area; generating and exporting report (day/month/year); queue management, 4 rules can be set for tripwire, people counting in area and queue management. Mosaics can be automatically placed over the face or body of a person to protect their privacy Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream) Video Compression 4 H.265; H.264 Main stream: 1920 × 1080@(1–25/30 fps) third stream: 1920 × 1080@(1–25/30 fps)	Camera		
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Streaming Capability 3 streams	Video Frame Rate	sub stream: $1920 \times 1080@(1-25/30 \text{ fps})$ third stream: $1920 \times 1080@(1-25/30 \text{ fps})$ *High frame rate of main stream is supported under monitoring mode only Note: Al/WDR cannot be enabled at the same time as	
0 17-2-11	Streaming Capability	3 streams	
Resolution 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	Resolution	720) ; D1 (704 × 576/704 × 480); VGA (640 × 480); CIF	
Bit Rate Control VBR;CBR;ABR	Bit Rate Control	VBR;CBR;ABR	

Video Bit Rate	H.264: 3 kbps–8192 kbps; H.265: 3 kbps–8192 kbps	
Day/Night	Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
Scene Self-adaptation (SSA)	Yes	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto/Manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (RoI)	Yes (4 areas)	
Defog	Yes	
Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
Alarm		
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; people counting; people number error detection; security exception	
Network		
Network Port	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
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; P2P; Bonjour; Auto Registration	
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. 512 GB); NAS	
Browser	IE: IE8, IE9, and IE11 Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS; DoLynk Care	
Mobile Client	iOS;Android	
Security	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;Session security;Security warning	

Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU;
Port	

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

Power

Power Supply	12 VDC; PoE (802.3af)
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: 4 W (12 VDC); 5.6 W (PoE); Max.: 5.7 W (12 VDC); 6.7 W (PoE) (High frame rate + Intelligence on + WDR)

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95% (RH) , non-condensing
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95% (RH) , non-condensing

Structure

Casing Material	Metal
Product Dimensions	110 mm × 83 mm × 24 mm (4.33" × 3.27" × 0.94") (L × W × H)
Net Weight	210 g (0.46 lb)
Gross Weight	646 g (1.42 lb)

Ordering Information

Туре	Model	Description
IP CAMERA	DH-IPC-HUM8241E-E1	2MP Covert Pinhole WizMind Network Camera- Main Box
Accessories (Optional)	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester
	DHI-TF-P100/512GB	MicroSD Card

Accessories

Optional:







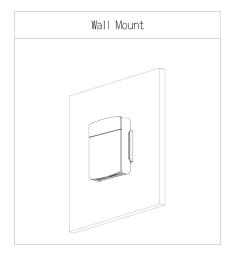
DH-PFM320D-EN

DH-PFM321-EN DC12V2A power adapter DC12V1A power adapter

DHI-TF-P100/512GB MicroSD Card



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

