

# DH-IPC-HUM8431-E1

4MP Covert Pinhole Network Camera-Main Unit



#### System Overview

Dahua covert camera used modular design, this product provides an independent main unit, with multiple lens types for customers to choose separately. It can be easily installed into any indoor environments, which makes this camera ideal for the ATMs(Automatic Teller Machines), banks, stores, hotels and offices.

#### Functions

#### Intelligent Video System (IVS)

Dahua camera has a built-in video analysis based on intelligent algorithms and can achieve the following:Tripwire,Intrusion,Abandoned/ Missing can timely, quickly and accurately respond to monitoring events in specific area. It enhances monitoring efficiency. At the same time, the camera can support face detection, it can quickly capture a face and upload the image to the server. In addition the camera also supports intelligent tamper detection,through dramatic changes in the scene it will send out warning information to ensure effective monitoring.

#### Protection

Supporting  $\pm 30\%$  input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.

#### HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 following standard developed around the existing video coding standard H.264, some retain the original technology, while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream, encoding quality, and the delay between algorithm complexity, optimize settings specific contents include: Improve compression efficiency, improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay, reduce complexity, etc.

- · H.265&H.264 triple-stream encoding
- · Support Smart H.265+/H.264+
- · 25/30fps@4M(2688×1520)
- · Day/Night(Electronic), WDR, 3DNR, AWB, AGC, BLC
- $\cdot$  Smart detection
- · Micro SD memory, PoE
- · Multiple Lens Unit optional



#### Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

#### Wide Dynamic Range (WDR)

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.



#### **Technical Specification** Camera 512MB/32MB RAM/ROM S/N Ratio More than 50dB Intelligence IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection Video (working together with lens unit) H.265+/H.265/H.264+/H.264 Compression Streaming Capability 3 Streams 4M(2688×1520) / 3M(2304x1296) / 1080P(1920×1080) / 1.3M(1280×960) / 720P(1280×720) / D1(704×576/704×480) / Resolution VGA(640x480) / CIF(352×288/342x240) Main Stream: 4M (1~25/30fps) Frame Rate Sub Stream: D1 (1 ~ 25/30fps) Third Stream: 720P (1~25/30fps) CBR/VBR Bit Rate Control H.264: 24Kbps~ 10240Kbps Bit Rate H.265: 14Kbps~ 9984Kbps Day/Night Electronic BLC Mode BLC / HLC / WDR(120dB) White Balance Auto/Natural/Street Lamp/Outdoor/Manual Gain Control Auto/Manual Noise Reduction 3D DNR Motion Detetion Off / On (4 Zones, Rectangle) Region of Interest Off / On (4 Zones) Electronic Image Stabilization N/A (EIS) N/A Smart IR Defog N/A **Digital Zoom** 16x Flip 0°/90°/180°/270° Off/On Mirror Privacy Masking Off / On (4 Areas, Rectangle)

G.711a/ G.711Mu/ AAC/ G.726

Audio Compression

Network		
Ethernet	RJ-45 (10/100Base-T)	
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP; DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP;IGMP;SNMP	
Interoperability	ONVIF, PSIA, CGI	
Streaming Method	Unicast / Multicast	
Max. User Access	10 Users/20 Users	
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS, Easy4ip	
Smart Phone	IOS, Android	
Certifications		
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B	
Interface		
Video Interface	N/A	
Audio Interface	1/1 channel In/Out	
RS232	1 port	
Alarm	2/2 channel In/Out	
Electrical		
Power Supply	DC12V, PoE(802.3af)(Class 0)	
Power Consumption	<6W (working together with lens unit)	
Environmental		
Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH	
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Ingress Protection	N/A	
Vandal Resistance	N/A	
Construction		
Casing	Metal	
Dimensions	110.0mm×82.7mm×24.0mm (4.33"×3.26"×0.95")	
Net Weight	0.21Kg (0.46lb)	
Gross Weight	0.30Kg (0.66lb)	

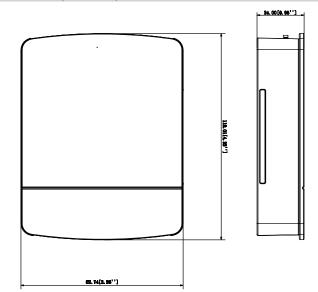
## Pinhole Series | DH-IPC-HUM8431-E1

#### **Ordering Information**

Туре	Part Number	Description
4MP Camera Main Unit	DH-IPC- HUM8431P-E1	4MP Covert Pinhole Network Camera, Main Unit, PAL
	DH-IPC- HUM8431N-E1	4MP Covert Pinhole Network Camera, Main Unit, NTSC
	IPC-HUM8431P-E1	4MP Covert Pinhole Network Camera, Main Unit, PAL
	IPC-HUM8431N-E1	4MP Covert Pinhole Network Camera, Main Unit, NTSC
Accessories	IPC-HUM8431-L1	4MP Cylindrical Sensor Unit, Pinhole Lens with 8 meters Cable

Link: http://www.dahuasecurity.com/products\_category/4-megapixel-4281.html

### Dimensions (mm/inch)





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