

# DH-IPC-HUM4431S-L4

4MP Fixed-focal Pinhole Network Camera



#### **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**

#### 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.

#### **IVS**

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

#### 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.

#### Starlight

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

#### **Protection (Wide Voltage)**

Wide voltage: The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

- 4-MP 1/3" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520) @20 fps, and supports 3.6 MP (2560 × 1440) @25/30 fps.
- H.265 codec, high compression rate, 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 monitoring: Intrusion and tripwire.
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, network disconnection, IP conflict, illegal access, and voltage detection.
- · Audio: 1 in, 1 out; built in MIC.
- 12 VDC power supply.











#### **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							WDR	120 dB
Camera							White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Image Sensor		1/3" CMOS					Gain Control	Auto; manual
Max. Resolution		2688 (H) × 1520 (V)					Noise Reduction	3D NR
ROM		128 MB					Motion Detection	OFF/ON (4 areas, rectangular)
RAM		128 MB					Region of Interest (RoI)	Yes (4 areas)
Scanning System		Progressive					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						resolution and lower)
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE)					Mirror  Privacy Macking	Yes 4 areas
S/N Ratio		>56 dB					Privacy Masking Audio	4 dleds
Lens							Built-in MIC	Yes
Lens Type		Fixed-focal						
Lens Mount		M12					Audio Compression	G.711a; G.711Mu; PCM; G.726
Focal Length		2.8 mm					Alarm	
Max. Aperture		F2.0					Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception
Field of View		Horizontal: 96°; Vertical: 55°; Diagonal: 110°					Network	
Iris Control		Fixed					Network Port	RJ-45 (10/100 Base-T)
Close Focus Distance		0.8 m (2.62 ft)					SDK and API	Yes
DORI Distance	Lens 2.8 mm	Detect 61.0 m (200.13 ft)	Observe 24.4 m (80.05 ft)	12.2 m (40.03 ft)	6.1 m (20.01 ft)		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
Smart Event								execution; Trusted upgrade  IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;
Video		Intrusion; tripwire					Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video Compression		H.265; H.264; H.264B; MJPEG (Only supported by the					Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
Smart Codec		sub stream) Smart H.265+; Smart H.264+					User/Host	20 (Total bandwidth: 48 M)
Siliai i Couec			,		560 x 1440 @		Storage	FTP; SFTP; NAS
Video Frame	Rate	Main stream: 2688 × 1520 @(1–20 fps )/2560 × 1440 @ (1–25/30 fps ) sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @(1–30 fps)					Browser	IE Chrome Firefox
		stream; for m	above are the multiple streams	, the values wi			Management Software	Smart PSS; DSS; DMSS
Change of the Control	L:11:4		ncoding capaci	ty.			Mobile Client	iOS; Android
Stream Capability		2 streams					Certification	
Resolution		4M (2688 × 1520); 3.6 M (2560 × 1440); 3M (2304 ×1296); 1080p (1920 × 1080); 1.3M (1920 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF(352 × 288/352 × 240)					Certifications	CE-LVD:EN62368-1; CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU; FCC:47 CFR FCC Part 15, Subpart B
Bit Rate Control		CBR/VBR					Port	100.47 CINTECTAIL 13, Subpail b
Video Bit Rate		H.264: 3 kbps–6144 kbps H.265: 3 kbps–6144 kbps					Audio Input	1 channel (RCA port)
Day/Night		Color/B/W					Audio Output	1 channel (RCA port)
BLC		Yes						
HLC		Yes						

#### Power

Power Supply	12 VDC
Power Consumption	Basic: 1.4 W (12 VDC) Max. (H.265 + intelligence on + WDR): 1.8 W (12 VDC)

### 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)	

#### Structure

Casing	Metal
Product Dimensions	31.0 mm $\times$ 31.0 mm $\times$ 30.0 mm (1.22" $\times$ 1.22" $\times$ 1.18") (L $\times$ W $\times$ H)
Net Weight	81 g (0.18 lb)
Gross Weight	138 g (0.30 lb)

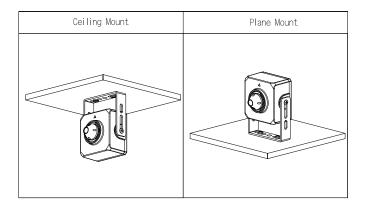
Ordering Information					
Туре	Model	Description			
4MP Camera	DH-IPC-HUM4431S-L4	4MP Fixed-focal Pinhole Network Camera			
Accessories	PFM321D	DC12V1A Power Adapter			

## Accessories

# Optional:



DC12V1A Power Adapter



# Dimensions (mm[inch])

