

DH-IPC-HUM4231S-L5

2MP 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.

- 2-MP 1/3" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080) @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						HLC	Yes
Camera						WDR	120 dB
Image Sensor		1/3" CMOS				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Max. Resolution		1920 (H) × 1080 (V)				Gain Control	Auto; manual
ROM		128 MB				Noise Reduction	3D NR
RAM		128 MB				Motion Detection	OFF/ON (4 areas, rectangular)
Scanning System		Progressive				Region of Interest (RoI)	Yes (4 areas)
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080P
Min. Illumination		0.01 lux@F1.6 (Color, 30 IRE) 0.001 lux@F1.6 (B/W, 30 IRE)				Mirror	resolution and lower) Yes
S/N Ratio		>56 dB				Privacy Masking	4 areas
Lens						Audio	4 dreas
Lens Type		Fixed-focal					
		M12				Built-in MIC	Yes
Lens Mount						Audio Compression	G.711a; G.711Mu; PCM; G.726
Focal Length	1	2.8 mm; 3.6 mm				Alarm	
Max. Aperture Field of View				Vertical: 52°; D Vertical: 41°; D		Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception
Iris Control		Fixed				Network	
Close Focus Distance		L5-2.8 mm: 1.1 m (3.61 ft) L5-3.6 mm: 1.7 m (5.58 ft)				Network Port	RJ-45 (10/100 Base-T)
	Lens	Detect	Observe	Recognize	Identify	SDK and API	Yes
DORI Distance	2.8 mm 3.6 mm	63.6 m (208.66 ft) 85.4m	25.4 m (83.33 ft) 34.2m	12.7 m (41.67 ft) 17.1m	6.4 m (23.00 ft) 8.5 m	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
		(280.18 ft)	(112.20 ft)	(56.10 ft)	(27.89 ft)		execution; Trusted upgrade
Smart Event		Intrusion; tripwire				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; PPPoE; Bonjour
Video						Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
Video Comp	ression		; H.264B; MJPE	EG (Only suppor	rted by the	User/Host	20 (Total bandwidth: 48 M)
		sub stream)	+; Smart H.264	<u>.</u>		Storage	FTP; SFTP; NAS
Smart Codec Video Frame Rate		Main stream:	1920 × 1080 @	0(1–25/30 fps) –25 fps)/704 ×		Browser	IE Chrome Firefox
				nax. frame rate		Management Software	Smart PSS; DSS; DMSS
		,	ultiple streams ncoding capaci	s, the values wi ty.	II be subjected	Mobile Client	iOS; Android
Stream Capability		2 streams				Certification	
Resolution		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	
Video Bit Rate		H.264: 3 kbps H.265: 3 kbps				Audio Input	1 channel (RCA port)
Day/Night		Color/B/W				Audio Output	1 channel (RCA port)
BLC		Yes					

Power

Power Supply	12 VDC
Power Consumption	Basic: 1.2 W (12 VDC) Max. (H.265 + intelligence on + WDR): 1.56 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 37.1 mm (1.22" \times 1.22" \times 1.46") (L \times W \times H)
Net Weight	81 g (0.18 lb)
Gross Weight	138 g (0.30 lb)

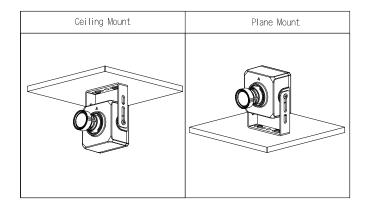
Ordering Information					
Туре	Model	Description			
2MP Camera	DH-IPC-HUM4231S-L5	2MP Fixed-focal Pinhole Network Camera			
Accessories	PFM321D	DC12V1A Power Adapter			

Accessories

Optional:



DC12V1A Power Adapter



Dimensions (mm[inch])

