

DH-IPC-HUM4231-S2

2MP Fixed-focal Pinhole Network Camera



- · 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- · Outputs max. 2MP (1920 × 1080) @30 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · RoI, SMART H.264+/H.265+, flexible coding, applicable to various band width and storage environments
- · Rotation mode, WDR 120dB, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Tripwire and intrusion
- · Abnormality detection: Motion detection, video tampering, scene chang ing, audio detection, network disconnection, IP conflict, illegal access, voltage detection
- · Audio: 1 in, 1 out
- · 12V DC power supply





System 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 Codec

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.

Protection (wide voltage)

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



Technical Specification						Motion Detection	OFF/ON (4 areas, rectangular)
Camera						Region of Interest (RoI)	Yes (4 areas)
Image Sensor		1/2.8"2Megapixel progressive CMOS				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Effective Pixels		1920 (H) ×1080 (V)				Mirror	Yes
ROM		128 MB				Privacy Masking	4 areas
RAM		128 MB				Audio	
Scanning System		Progressive				Audio Compression	G.711A; G.711Mu; G.726; AAC
S/N Ratio		>56 dB				Network	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Network	RJ-45 (10/100 Base-T)
Min. Illumination		0.005 Lux@F2.0				Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTS; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAM
Lens							PPPoE; 802.1x; Bonjour
Lens Type		Fixed-focal				Interoperability	ONVIF (Profile S); CGI; Milestone; Genetec; Dahua Cloud
Mount Type		M12				User/Host	20 (Total bandwidth: 64 M.)
Focal Length		2.8 mm				Edge Storage	FTP; SFTP; NAS
Max. Aperture Field of View		F2.0 Horizontal: 108° × Vertical: 59° × Diagonal: 118°				Browser	IE: IE8; IE9; IE11 Chrome Firefox
Iris Type		Fixed				Management Software	Smart PSS; DSS; DMSS
Close Focus Distance		0.6 m				Mobile Phone	IOS; Android
	Lens	Detect	Observe	Recognize	Identify	Certifications	
DORI Distance Smart Ever	2.8mm nt	42.1 m (138.1 ft)	16.8 m (55.1ft)	8.4 m (27.6 ft)	4.2 m (13.8 ft)	Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU CE-RED: Radio Equipment Directive 2014/53/EU FCC: 47 CFR FCC Part 15, Subpart B
IVS		Tripwire; intr	rusion			Doub	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-0
Video						Port	
Video Compression		Main stream: H.264; H.264H; H.264b; H.265 Sub stream:H.264; H.264H; H.264b; H.265; MJPEG				Audio Input	1 channel (RCA port)
Smart Codec		Yes				Audio Output	1 channel (RCA port)
Video Frame f	Rate			@1-25/30 fps 5 fps; 704 × 480	@30 fps	Power	401/00
Stream Capability		2 streams		.,		Power Supply	12V DC Basic power consumption: 1.3W (12V DC)
Resolution		Main stream: 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720);				Power Consumption	Max. power consumption (IVS): 1.4W (12V DC)
		Sub stream:	01 (704 × 576/	704 × 480); VG	A (640 × 480);	Environment	
Bit Rate Control		CIF (352 × 288/352 × 240) CBR/VBR				Operating Conditions	-40°C to $+60$ °C (-40 °F to $+140$ °F)/Less than 95% R
Video Bit Rate		H.264: 3 kbps-6144kbps				Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
		H.265: 3 kbps-6144 kbps Yes				Structure	
BLC HLC		Yes				Casing	Metal
WDR		120 dB				Dimensions	34.6 mm × 44 mm × 30 mm (1.4" × 1.7" × 1.2")
			/street lamp/o	outdoor/manua	l/regional	Net Weight	82 g (0.2 lb)
White Balance		custom		,		Gross Weight	128 g (0.3 lb)
Gain Control		Auto/Manua	Auto/Manual				
Noise Reduction		3D DNR					

Pinhole Series | DH-IPC-HUM4231-S2

Ordering Information							
Туре	Part Number	Description					
2MD Camana	DH-IPC-HUM4231P-S2	2MP Fixed-focal Pinhole Netwok Camera, PAL					
2MP Camera	DH-IPC-HUM4231N-S2	2MP Fixed-focal Pinhole Netwok Camera, NTSC					
Accessories	PFM900-E	Junction Box					
(optional)	PFM321D	DC12V1A Power Adapter					

Accessories

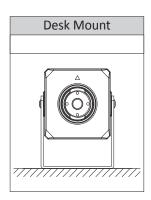
Optional:



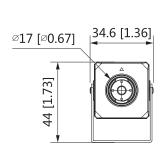


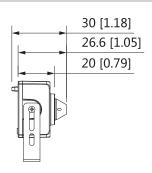


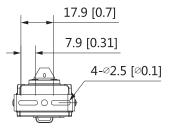
PFM321D DC12V1A Power Adapter

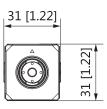


Dimensions (mm[inch])









Rev 001.001

2019 Dahua, All rights reserved. Design and specifications are subject to change without notic interest in the document are for reference only, and the actual product shall prevail.

