

DH-IPC-HUM4231-S2

2MP Fixde-focal Pinhole Network Camera



- \cdot 2MP, 1/2.8" CMOS image sensor, low illuminance, high definition image
- \cdot Outputs max. 2MP (1920 \times 1080) @30 fps
- $\cdot\,$ H.265 codec, high compression rate, ultra-low bit rate
- Rol, 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
- \cdot 12 V 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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Pinhole Series | DH-IPC-HUM4231-S2

Technical Specification

Camera					
Image Sensor		1/2.8" CMOS			
Effective Pixels		1920 (H) ×1080 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
S/N Ratio		> 56 dB			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.005 Lux@F2.0 (Color, 30IRE) 0.0005 Lux@F2.0 (B/W, 30IRE)			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm			
Max. Aperture		F2.0			
Field of View		Horizontal: 108° × Vertical: 59° × Diagonal: 118°			
Iris Type		Fixed			
Close Focus Distance		0.6 m			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	42.1 m (138.1 ft)	16.8 m (55.1ft)	8.4 m (27.6 ft)	4.2 m (13.8 ft)
Smart Evon	+				

Smart Event

IVS	Tripwire; intrusion			
Video				
Video Compression	Main stream: H.264; H.264H; H.264b; H.265 Sub stream:H.264; H.264H; H.264b; H.265; MJPEG			
Smart Codec	Yes			
Video Frame Rate	Main stream: 1920 × 1080 @1-25/30 fps Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps			
Stream Capability	2 streams			
Resolution	Main stream: 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); Sub stream:D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			
Bit Rate Control	CBR/VBR			
Video Bit Rate	H.264: 3 kbps–6144 kbps H.265: 3 kbps–6144 kbps			
BLC	Yes			
HLC	Yes			
WDR	120 dB			
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom			
Gain Control	Auto/Manual			
Noise Reduction	3D DNR			

Motion Detection	OFF/ON (4 areas, rectangular)			
Region of Interest (Rol)	Yes (4 areas)			
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)			
Mirror	Yes			
Privacy Masking	4 areas			
Audio				
Audio Compression	G.711A; G.711Mu; G.726			
Network				
Network	RJ-45 (10/100 Base-T)			
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTS; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QOS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; Bonjour			
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 execution; trusted upgrade			
Interoperability	ONVIF (Profile S); CGI; Milestone; Genetec			
User/Host	20 (Total bandwidth: 64 M)			
Edge Storage	FTP; SFTP; NAS			
Browser	IE: IE8; IE9; IE11 Chrome Firefox			
Management Software	Smart PSS; DSS; DMSS			
Mobile Phone	IOS; Android			
Certifications				
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07			
Port				
Audio Input	1 channel (RCA port)			
Audio Output	1 channel (RCA port)			
Power				
Power Supply	12V DC			
Power Consumption	Basic power consumption: 1.3W (12V DC) Max. power consumption (IVS): 1.4W (12V DC)			
Environment				
Operating Conditions	–40 °C to +60 °C (–40 °F to +140 °F)/Less than 95% RH			
Strorage Conditions	-40 °C to +60 °C (-40 °F to +140 °F)			
Structure				
Casing	Metal			
Dimensions	34.6 mm × 44 mm × 30 mm (1.4" × 1.7" × 1.2")			
Net Weight	82 g (0.2 lb)			
Gross Weight	128 g (0.3 lb)			

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

Accessories

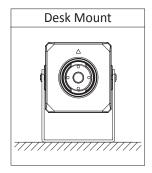
Optional:



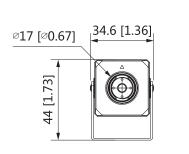


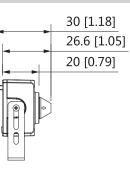
PFM900-E Integrated Mount Tester

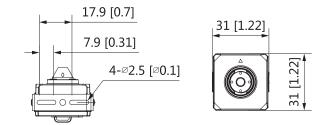
PFM321D DC12V1A Power Adapter



Dimensions (mm[inch])







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