

DH-IPC-HUM4231

2MP WDR Pinhole Network Camera



- · 1/2.7" 2Megapixel progressive CMOS
- · H.265& H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(Electronic), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & **DMSS**
- · 2.8 mm pinhole lens









System Overview

The pinhole camera delivers 2MP resolution with a 2.8mm pinhole lens for covert surveillance. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.It can be easily installed in any indoor environment, making it ideally suited for a wide range of applications such as ATM, bank, store and office.

Functions

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity.

Image Flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for

better video optimization.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification							Bit Rate	H.265: 12K ~ 6400Kbps H.264: 32K ~ 8192Kbps
Camera							Day/Night	Auto(Electronic) / Color / B/W
Image Sensor		1/2.7" 2Megapixel progresive CMOS					BLC Mode	BLC / HLC / WDR(120dB)
Effective Pixels		1920H)x1080(V)					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
RAM/ROM		256MB/128MB					Gain Control	Auto/Manual
Scanning System		Progressive					Noise Reduction	3D DNR
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Motion Detection	Off / On (4 Zone, Rectangle)
		0.007Lux/F2.4(Color,1/3s,30IRE) 0.04Lux/F2.4(Color,1/30s,30IRE)					Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.004Lux/F2.4(B/W,1/3s,30IRE) 0.02Lux/F2.4(B/W,1/30s,30IRE)					Electronic Image Stabilization (EIS)	N/A
S/N Ratio		More than 50dB					Smart IR	N/A
IR Distance		N/A					Digital Zoom	16x
IR On/Off Control		N/A					Flip	0°/90°/180°/270°
Lens		N/A					Mirror	Off / On
		Final					Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type Mount Type		Fixed Poord in					Audio	
Mount Type		Board-in					Compression	G.711a/G.711Mu/AAC/ G.726
Focal Length		2.8mm					Network	
Max. Aperture		F2.4					Ethernet	RJ-45 (10/100Base-T)
Angle of View Focus Control		H:105°, V:60° Fixed					Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UPnP;
Close Focus Distance		N/A					1.00	NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;TLS
	Lens	Detect	Observe	Recognize	Identify		Interoperability	ONVIF Profile S, API
DORI Distance	2.8 mm	63(207ft)	25(82ft)	13(43ft)	6(20ft)		Streaming Method	Unicast / Multicast
Pan/Tilt/Ro	tation						Max. User Access	10 Users / 20 Users
Pan/Tilt/Rotation	on Range	N/A					Edge Storage	NAS Local PC for instant recording
Intelligence							Web Viewer	IE, Chrome, Firefox, Safari
		Motion detection, Video tampering, Scene changing,					Management Software	Smart PSS, DSS, DMSS
Event Trigger		Network disconnection, Ip address conflict, Illegal access, Storage anomaly					Smart Phone	IOS, Android
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Certifications	
Advanced Intelligent Functions		Face Detection					Certifications	CE (EN 60950:2000) UI:UL60950-1 FCC: FCC Part 15 Subpart B
Video							Interface	
Compression		H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)					Video Interface	N/A
Smart Codec		Support H.265+/H.264+					Audio Interface	1/1 channel In/Out
Streaming Capability		3 Streams					RS485	N/A
Resolution		1080P(1920×1080)/960P(1280×960)/720P(128 0×720)/D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)					Alarm	N/A
Frame Rate		Main Stream: 1080p (1 ~ 25/30fps)					Electrical	
		Sub Stream: D1(1 ~ 25/30fps)					Power Supply	DC12V
		Third Stream: 1080P(1 ~ 14/9fps)					Power Consumption	<1.5W
Bit Rate Control		CBR/VBR						

Pinhole Series | DH-IPC-HUM4231

Environmental

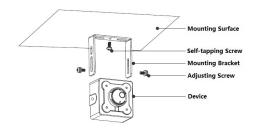
Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	N/A
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	44.9mm × 57.7mm×34.35mm (1.77" x 2.27"x 1.35")
Net Weight	0.102Kg (0.225lb)
Gross Weight	0.145Kg (0.319lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC-HUM4231P	2MP WDR Pinhole Network Camera,2.8mm, PAL				
2MP camera	DH-IPC-HUM4231N	42MP WDR Pinhole Network Camera,2.8mm,NTSC				
ZIMP camera	IPC-HUM4231P	2MP WDR Pinhole Network Camera, 2.8mm, PAL				
	IPC-HUM4231N	2MP WDR Pinhole Network Camera,2.8mm,NTSC				

Installation



Dimensions (mm/inch)





