DH-IPC-HDB4231G-AS

2MP HD Recessed Mount Dome Network Camera

- 1/2.8" 2Megapixel progressive Starvis™ CMOS
- H.265&H.264 triple-stream encoding
- 50/60fps@1080P(1920×1080)
- Smart Detection supported
- WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.8mm fixed lens (3.6mm optional)
- Built-in Mic
- Micro SD memory, IK08, PoE

System Overview

Eco-savvy products by upgrading H.265 encoding technology, bringing high efficient video compression. It saves bandwidth and storage , energy-saving design to enhance the monitoring system . Meanwhile, the series offers features such as starlight , Smart IR technology , intelligent image analysis techniques. It provides excellent image quality and intelligent and efficient event reminders . This series provides IP67 weatherproof and IK10 vandal-proof protection feature. Give customers more value

Functions

Wide Dynamic Range

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire, Intrusion, Abandoned, Missing and so on, to quickly and accurately respond to monitoring events in specific area. It can enhance monitoring efficiency. At the same time, the camera can support face detection, which can quickly capture a face and upload the image to server. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

Environmental

With a temperature range of-10 °C to +45 °C (14 °F to +113 °F), the camera is designed for soft indoor temperature environments.

Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of lightning. IK08 compliance enables the camera to sustain the equivalent of 14 kg (30lbs) force.

Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity , optimize settings specific contents include : Improve compression efficiency , improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay , reduce complexity , etc

Technical Specification

Camera

Image Sensor	1/2.8"2Megapixel progressive CMOS
Effective Pixels	1920(H)x1080(V)
RAM/ROM	256MB/32MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s
Minimum Illumination	0.009Lux/F2.0(Color,1/3s,30IRE) 0.07Lux/2.0(Color,1/30s,30IRE) 0.005Lux/F2.0(B/W1/3s,30IRE) 0.03Lux/2.0(B/W,1/30s,30IRE)
S/N Ratio	More than 50dB
IR Distance	N/A
IR On/Off Control	N/A
IR LEDs	N/A

Lens

Lens Type	Fixed				
Mount Type	Board-in				
Focal Length	2.8mm (3.6mm optional)				
Max. Aperture	F2.0 (F2.0)				
Angle of View	H: 110° (86°) , V: 60° (45°)				
Optical Zoom	N/A				
Focus Control	Fixed				
Close Focus Distance	N/A				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	44m(144ft)	17m(56ft)	9m(30ft)	4m(13ft)
	3.6 mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan:0°~360°; Tilt:0°~90°; Rotation:-90°~90°

Intelligence

IVS	Tripwire, Intrusion, Object Abandoned/Missing
Advanced Intelligent Functions	Face Detection

Video

Compression	H.265+/H.265/H.264+/H.264
Streaming Capability	3 Streams
Resolution	1080P(1920x1080)/SXGA(1280×1024)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/VGA(640×480)CIF(352×288/352×240)
Frame Rate	Main Stream:1080P(1~50/60fps)
	Sub Stream: D1(1~50/60fps)
	Third Stream:720P(1~50/60fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.265:12K ~ 6912Kbps H.264:32K ~ 10240Kbps
Day/Night	Electronic
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	N/A
Defog	N/A
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

Audio

Compression	G.711a/ G.711Mu/ AAC/ G.726

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, Easy4ip
Smart Phone	IOS, Android

Certifications

Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B

Interface

Video Interface	N/A
Audio Interface	Built-in Mic
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	<2.93W

Environmental

Operating Conditions	-10° C ~ +45° C (14° F ~ +113° F) / Less than 95% RH
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Ingress Protection	N/A
Vandal Resistance	IK08

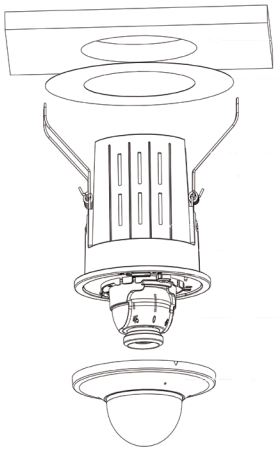
Construction

Casing	Plastic
Dimensions	Φ93mm×116.5mm (3.65”×4.58”)
Net Weight	0.225Kg (0.50lb)
Gross Weight	0.37Kg (0.82lb)

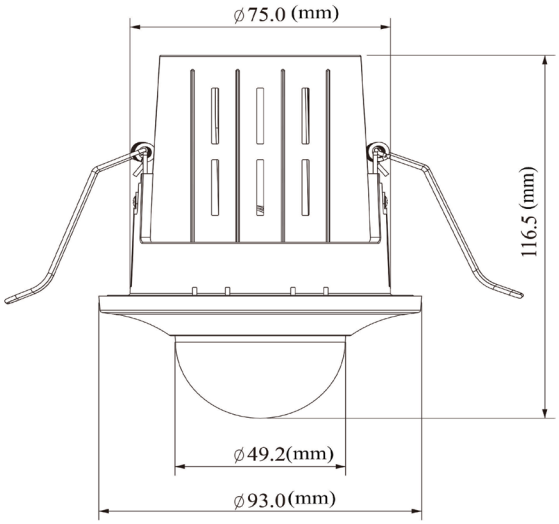
Ordering Information

Type	Part Number	Description
2MP camera	DH-IPC-HDB4231GP-AS-0360B	2MP HD Recessed Mount Dome Network Camera, PAL
	DH-IPC-HDB4231GN-AS-0360B	2MP HD Recessed Mount Dome Network Camera, NTSC
	IPC-HDB4231GP-AS-0360B	2MP HD Recessed Mount Dome Network Camera,PAL
	IPC-HDB4231GN-AS-0360B	2MP HD Recessed Mount Dome Network Camera, NTSC
	DH-IPC-HDB4231GP-AS-0280B	2MP HD Recessed Mount Dome Network Camera, PAL
	DH-IPC-HDB4231GN-AS-0280B	2MP HD Recessed Mount Dome Network Camera, NTSC
	IPC-HDB4231GP-AS-0280B	2MP HD Recessed Mount Dome Network Camera
	IPC-HDB4231GN-AS-0280B	2MP HD Recessed Mount Dome Network Camera,NTSC

Accessories



Dimensions (mm/inch)



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