

DH-IPC-HDB4431G-AS

4MP HD Recessed Mount Dome Network Camera



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 $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning

- · 1/3" 4Megapixel progressive CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4MP(2688×1520)
- · 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







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 S	pecification				
Camera					
Image Sensor		1/3"4Megapixel progressive CMOS			
Effective Pixels		2688(H)x1520(V)			
RAM/ROM		512MB/32MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s			
Minimum Illumination		0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/2.0(Color,1/30s,30IRE) 0.04Lux/F2.0(B/W,1/3s,30IRE) 0.2Lux/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 Dis	stance	N/A			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	63m(207ft)	` '	13m(43ft)	6m(20ft)
D /T:I+ /D	3.6 mm	80m(262ft)	32m(105ft)	16m(53ft)	8m(26ft)
Pan/Tilt/Ro					
Pan/Tilt/Rotati	-	Pan:0~360	; Tilt:0 ^{-~} 90 ⁻ ; F	Rotation:0°~3	50°
Intelligence		T			/> 4:
IVS Advanced Intel	ligent Functions	Tripwire, Int		t Abandoned/	iviissing
Video	pent runctions	. dee Detect			
		H 265±/H 24	55/H 264±/H	264	
Compression Streaming Capa	ability	H.265+/H.265/H.264+/H.264 3 Streams			
Streaming Capability Resolution		(2688x1520)/(2560×1440)/ (2304x1296)/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: 4M(1~25/30fps) Sub Stream: D1(1~25/30fps) Third Stream: 720P(1~25/30fps)			
Bit Rate Control		CBR/VBR			
Bit Rate		H.265:12K ~ 6912Kbps H.264:32K ~ 10240Kbps			
Day/Night		Electronic			
BLC Mode		BLC / HLC / V	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) 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	<3.5W			

Environmental

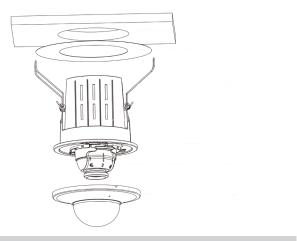
Operating Conditions	-10° C ~ +45° C (14° F ~ +113° F) / Less than 95% RH
Strorage Conditions	-10° C ~ +45° C (14° F ~ +113° F) / Less than 95% RH
Ingress Protection	N/A
Vandal Resistance	IK08

Construction

Casing	Plastic
Dimensions	Ф93mm×116.5mm (3.65"×4.58")
Net Weight	0.225Kg (0.50lb)
Gross Weight	0.37Kg (0.82lb)

Ordering Information Туре Part Number Description DH-IPC-4MP HD Recessed Mount Dome HDB4431GP-AS-Network Camera, PAL 0360B DH-IPC-4MP HD Recessed Mount Dome HDB4431GN-AS Network Camera, NTSC -0360B IPC-HDB4431GP-4MP HD Recessed Mount Dome AS-0360B Network Camera,PAL IPC-HDB4431GN-4MP HD Recessed Mount Dome AS-0360B Network Camera, NTSC 4MP camera DH-IPC-4MP HD Recessed Mount Dome HDB4431GP-AS-Network Camera, PAL 0280B DH-IPC-4MP HD Recessed Mount Dome HDB4431GN-AS-Network Camera, NTSC 0280B IPC-HDB4431GP-4MP HD Recessed Mount Dome AS-0280B Network Camera, PAL IPC-HDB4431GN-4MP HD Recessed Mount Dome AS-0280B Network Camera, NTSC

Accessories



Dimensions (mm/inch)

