

DH-IPC-HDB4431C-M/M12

4MP Mini 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)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

Environmental

With a temperature range of-30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

- · 1/3" 4Megapixel progressive scan 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, IP66, PoE











Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

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						White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
	pecinication							
Camera							Gain Control	Auto/Manual
Image Sensor		1/3" 4Megapixel progressive scan CMOS					Noise Reduction	3D DNR
Effective Pixels		2688(H)x1520(V)					Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		512MB/32MB					Region of Interest	Off / On (4 Zone)
Scanning System		Progressive					Electronic Image Stabilization	N/A
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s					(EIS)	
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)					Smart IR	N/A
							Defog	N/A
C/N Batio		0.2Lux/2.0(B/W,1/30s,30IRE)					Digital Zoom	16x
S/N Ratio		More than 50dB					Flip	0°/90°/180°/270°
IR Distance		N/A					Mirror	Off / On
IR On/Off Cont	rol	N/A					Privacy Masking	Off / On (4 Area, Rectangle)
IR LEDs		N/A					Audio	
Lens							Compression	G.711a/ G.711Mu/ AAC/ G.726
Lens Type		Fixed					Network	
Mount Type		Board-in					Ethernet	PL 45 (10/100Page TV/M12 D Coding
Focal Length		2.8mm (3.6mm optional)					Ethernet	RJ-45 (10/100Base-T)/M12 D-Coding
Max. Aperture		F2.0 (F2.0)					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
Angle of View		H: 104° (87°) , V: 57° (48°)						
Optical Zoom		N/A					Interoperability	ONVIF, PSIA, CGI
Focus Control		Fixed					Streaming Method	Unicast / Multicast
Close Focus Dis	stance Lens	N/A					Max. User Access	10 Users /20 Users
DORI Distance	2.8 mm	Detect 63m(207ft)	Observe 25m(82ft)	Recognize 13m(43ft)	Identify 6m(20ft)			NAS
D G I III D I G I I I I I I I I I I I I	3.6 mm		32m(105ft)		8m(26ft)		Edge Storage	Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotation							Web Viewer	IE, Chrome, Firefox, Safari
Pan/Tilt/Rotati	ion Range	Pan:0°~355°; Tilt:0°~75°; Rotation:0°~360°					Management Software	Smart PSS, DSS, Easy4ip
Intelligence	1						Smart Phone	IOS, Android
IVS		Tripwire, Intrusion, Object Abandoned/Missing						ios, Anurolu
	lligent Functions						Certifications	CE /EN 600E0.2000\
Video							Combiling	CE (EN 60950:2000) UL:UL60950-1 FGG: FGG Port 15 Subport P
Compression		H.265+/H.26	65/H.264+/H.	264			Certifications	FCC: FCC Part 15 Subpart B E-mark(ECE-Regulation No.10)
Streaming Capability		3 Streams	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Interface	EN50155(Environment)
Resolution		4M(2688×1520)/3M(2304×1296)/					Interface	N/A
		720P(1280×	1080P(1920×1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480)/				Video Interface	N/A
Frame Rate		VGA(640×480)/CIF(352×288/352×240) Main Stream:4M(1~25/30fps)					Audio Interface	Built-in Mic
		Sub Stream: D1(1~25/30fps)					RS485	N/A
		Third Stream:720P(1~25/30fps)					Alarm	N/A
Bit Rate Control		CBR/VBR					Electrical	
Bit Rate		H.264: 24~10240Kbps H.265: 14~9984Kbps					Power Supply	DC12V, PoE (802.3af)(Class 0)
Day/Night		Electronic					Power Consumption	<3W
BLC Mode		BLC / HLC / WDR(120dB)						

		ntal

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Strorage Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Ф110mm×56mm (4.33"×2.2")
Net Weight	0.38Kg (0.84lb)
Gross Weight	0.44Kg (0.97lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HDB4431CP-M/ M12-0360B	4MP Mini Dome Network Camera, PAL		
	DH-IPC- HDB4431CN-M/ M12 -0360B	4MP Mini Dome Network Camera, NTSC		
	IPC-HDB4431CP-M/ M12-0360B	4MP Mini Dome Network Camera,PAL		
4MP camera	IPC-HDB4431CN-M/ M12-0360B	4MP Mini Dome Network Camera, NTSC		
	DH-IPC- HDB4431CP-M/ M12-0280B	4MP Mini Dome Network Camera, PAL		
	DH-IPC- HDB4431CP-M/ M12-0280B	4MP Mini Dome Network Camera, NTSC		
	IPC-HDB4431CP-M/ M12-0280B	4MP Mini Dome Network Camera, PAL		
	IPC-HDB4431CP-M/ M12-0280B	4MP Mini Dome Network Camera ,NTSC		
Accessories	PFA152	Pole Mount		
(optional)	PFB203W	Wall Mount		

Accessories

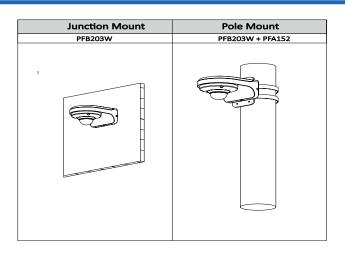
Optional:







PFB203W Wall Mount



Dimensions (mm/inch)

