

DH-IPC-HDBW4231F-AS

2MP IR 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

Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.009 lux).

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

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-steam encoding
- 50/60fps@2M(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, 6mm optional)
- Max. IR LEDs Length 20m
- Micro SD memory, IP67, IK10, PoE



camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. 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.

Protection

Supporting $\pm 30\%$ 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 Specification

Came	ra
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Camera					
Image Sensor		1/2.8" 2Megapixel progressive scan 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) 0Lux/F2.0(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 20m (66ft)			
IR On/Off Cont	rol	Auto/ Manual			
IR LEDs		10			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8mm (3.6mm, 6mm optional)			
Max. Aperture		F2.0 (F2.0, F2.0)			
Angle of View		H: 110° (87°, 51°), V:58° (48°, 30°)			
Optical Zoom		N/A			
Focus Control		Fixed			
Close Focus Dis	stance	N/A			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	44m(144ft)	17m(56ft)	9m(30ft)	4m(13ft)
	3.6 mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)
	6.0 mm	81m(266ft)	32m(105ft)	16m(52ft)	8m(26ft)
Pan/Tilt/Ro	tation				
Pan/Tilt/Rotati	on Range	Pan:0°~60°; Tilt:0°~80°; Rotation:0°~360°			
Intelligence					
IVS		Tripwire, Int	rusion, Object	t Abandoned/	/Missing
Advanced Intel	ligent Functions	Face Detect	ion		
Video					
Compression		H.265+/H.265/H.264+/H.264			
Streaming Capa	ability	3 Streams			
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 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: 1080P(1~25/30fps)			
Bit Rate Control		CBR/VBR			
Bit Rate		H.264: 24~9472Kbps H.265: 14~5632Kbps			
Day/Night		Auto(ICR) / Color / B/W			
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	Support
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
Interoperability Streaming Method	ONVIF, PSIA, CGI Unicast / Multicast
Streaming Method	Unicast / Multicast
Streaming Method Max. User Access	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording
Streaming Method Max. User Access Edge Storage	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB
Streaming Method Max. User Access Edge Storage Web Viewer	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari
Streaming Method Max. User Access Edge Storage Web Viewer Management Software	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip
Streaming Method Max. User Access Edge Storage Web Viewer Management Software Smart Phone	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip
Streaming Method Max. User Access Edge Storage Web Viewer Management Software Smart Phone Certifications	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1
Streaming Method Max. User Access Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1
Streaming Method Max. User Access Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Method Max. User Access Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Video Interface	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UI:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Method Max. User Access Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Video Interface Audio Interface	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B N/A Built-in Mic
Streaming Method Max. User Access Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Video Interface Audio Interface	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B N/A Built-in Mic N/A
Streaming Method Max. User Access Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Nideo Interface Audio Interface RS485	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B N/A Built-in Mic N/A
Streaming Method Max. User Access Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Nideo Interface Audio Interface RS485 Alarm Electrical	Unicast / Multicast 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B N/A Built-in Mic N/A

Eco Savvy 3.0 | DH-IPC-HDBW4231F-AS

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	Φ106mm×50.3mm (4.17"×1.98")
Net Weight	0.4kg (0.88lb)
Gross Weight	0.44kg (0.97lb)

Ordering Information Туре Part Number Description DH-IPC-HDBW4231FP-2MP IR Mini Dome Network AS-0360B Camera,WDR,PAL DH-IPC-2MP IR Mini Dome Network HDBW4231FN-AS-Camera,WDR,NTSC 0360B 2MP IR Mini Dome Network IPC-HDBW4231FP-AS-0360B Camera,WDR,PAL IPC-HDBW4231FN-2MP IR Mini Dome Network Camera,WDR,NTSC AS-0360B DH-IPC-HDBW4231FP-2MP IR Mini Dome Network AS-0280B Camera,WDR,PAL DH-IPC-2MP IR Mini Dome Network HDBW4231FN-AS-Camera,WDR,NTSC 0280B 2MP camera IPC-HDBW4231FP-AS-2MP IR Mini Dome Network 0360B Camera,WDR,PAL 2MP IR Mini Dome Network IPC-HDBW4231FN-AS-0360B Camera,WDR,NTSC DH-IPC-HDBW4231FP-2MP IR Mini Dome Network AS-0600B Camera,WDR,PAL DH-IPC-2MP IR Mini Dome Network HDBW4231FN-AS-Camera,WDR,NTSC 0600B IPC-HDBW4231FP-AS-2MP IR Mini Dome Network 0600B Camera,WDR,PAL IPC-HDBW/4231EN-2MP IR Mini Dome Network

	AS-0600B	Camera,WDR,NTSC
Accessories (optional)	PFB204W	Wall mount
	PFA139	Junction box
	PFA152	Pole mount

Accessories

Optional:







PFA139 Junction Box

PFB204W Wall Mount

PFA152 Pole Mount





