

# 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

Embedded 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 enviorments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

#### 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 Specification					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Camera					Gain Control	Auto/Manual	
Image Sensor		1/2.8" 2Meg	gapixel progre	essive scan CN	ИOS	Noise Reduction	3D DNR
Effective Pixels		1920(H)x108	30(V)			Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		256MB/32M	1B			Region of Interest	Off / On (4 Zone)
Scanning System		Progressive					
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s				Electronic Image Stabilization (EIS)	N/A
Minimum Illumination			1.0( Color,1/3 ( Color,1/30s, t on)			Smart IR	Support
S/N Ratio		More than 5	OdB			Defog	N/A
IR Distance		Distance up	to 20m (66ft)	)		Digital Zoom	16x
IR On/Off Contro	IR On/Off Control		al			Flip	0°/90°/180°/270°
IR LEDs						Mirror	Off / On
Lens						Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Fixed				Audio	
Mount Type		Board-in				Compression	G.711a/ G.711Mu/ AAC/ G.726
Focal Length		2.8mm (3.6r	nm, 6mm opt	tional)			3.7.11.13, 7.11.13, 7.11.13, 3.7.12
Max. Aperture		F2.0 (F2.0, F	2.0)			Network	
Angle of View		H: 110° (87°,	51°), V:58° (4	18°, 30°)		Ethernet	RJ-45 (10/100Base-T)
Optical Zoom		N/A				Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;
Focus Control Close Focus Dist	tance	Fixed N/A					IGMP; SNMP
Close i ocus bist	Lens	Detect	Observe	Recognize	Identify	Interoperability	ONVIF, PSIA, CGI
	2.8 mm	44m(144ft)	17m(56ft)	9m(30ft)	4m(13ft)	Streaming Method	Unicast / Multicast
DORI Distance	3.6 mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	Max. User Access	10 Users /20 Users
Pan/Tilt/Rot	6.0 mm	81m(266ft)	32m(105ft)	16m(52ft)	8m(26ft)	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotation						Web Viewer	
Pan/Tilt/Rotation Range		Pan:0°~60°; Tilt:0°~80°; Rotation:0°~360°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, Easy4ip
IVS		Tripwire, Int	rusion, Objec	t Abandoned	/Missing	Smart Phone	IOS, Android
Advanced Intelli	igent Functions	Face Detection				Certifications	
Video Compression	Video		55/H.264+/H.	264		Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability		3 Streams				Interface	
Resolution		720P(1280×		×576/704×48		Video Interface	N/A
				288/352×240)		Audio Interface	Built-in Mic
Frame Rate		Main Stream: 1080P (1~50/60fps)				RS485	N/A
			D1(1~50/60f	. ,		Alarm	N/A
Dit Data Co. 1		Third Stream: 1080P(1~25/30fps)				Electrical	
Bit Rate Control		CBR/VBR H.264: 24~9472Kbps				Power Supply	DC12V, PoE (802.3af)(Class 0)
Bit Rate		H.264: 24 <sup>-6</sup> 9 H.265: 14 <sup>-6</sup> 5				11.1	
Day/Night		Auto(ICR) / Color / B/W				Power Consumption	<4.5W
BLC Mode		BLC / HLC / WDR(120dB)					

## Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

### Construction

Casing	Metal
Dimensions	Ф106mm×50.3mm (4.17"×1.98")
Net Weight	0.4kg (0.88lb)
Gross Weight	0.44kg (0.97lb)

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Ordering Information							
Туре	Part Number	Description					
	DH-IPC-HDBW4231FP- AS-0360B	2MP IR Mini Dome Network Camera,WDR,PAL					
	DH-IPC- HDBW4231FN-AS- 0360B	2MP IR Mini Dome Network Camera,WDR,NTSC					
	IPC-HDBW4231FP-AS- 0360B	2MP IR Mini Dome Network Camera,WDR,PAL					
	IPC-HDBW4231FN- AS-0360B	2MP IR Mini Dome Network Camera,WDR,NTSC					
	DH-IPC-HDBW4231FP- AS-0280B	2MP IR Mini Dome Network Camera,WDR,PAL					
2MP	DH-IPC- HDBW4231FN-AS- 0280B	2MP IR Mini Dome Network Camera,WDR,NTSC					
camera	IPC-HDBW4231FP-AS- 0360B	2MP IR Mini Dome Network Camera,WDR,PAL					
	IPC-HDBW4231FN- AS-0360B	2MP IR Mini Dome Network Camera,WDR,NTSC					
	DH-IPC-HDBW4231FP- AS-0600B	2MP IR Mini Dome Network Camera,WDR,PAL					
	DH-IPC- HDBW4231FN-AS- 0600B	2MP IR Mini Dome Network Camera,WDR,NTSC					
	IPC-HDBW4231FP-AS- 0600B	2MP IR Mini Dome Network Camera,WDR,PAL					
	IPC-HDBW4231FN- AS-0600B	2MP IR Mini Dome Network Camera,WDR,NTSC					
	PFB204W	Wall mount					
Accessories (optional)	PFA139	Junction box					
	PFA152	Pole mount					

## Accessories

## Optional:







PFA139 Junction Box

PFB204W Wall Mount

PFA152 Pole Mount

Junction Mount	Pole Mount
PFA139	PFB204W + PFA152
Wall Mount	
PFB204W	



