

DH-IPC-HDBW4231F-M/M12

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.

$\cdot~$ 1/2.8" 2Megapixel progressive scan STARVIS^{\rm TM} 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



Environmental

IDMJ

With a temperature range of-30 °C to +60 °C (-22 °F to +140 °F), the

Eco Savvy 3.0 | DH-IPC-HDBW4231F-M/M12

Technical Specification

Came	era
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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 Shutt	er 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 Distance		N/A			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	44m(144ft)	17m(56ft)	9m(30ft)	4m(13ft)
Doni Distance	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, Intrusion, Object Abandoned/Missing			
Advanced Intel	ligent Functions	Face Detection			
Video					
Compression		H.265+/H.26	55/H.264+/H.:	264	
Streaming Capability		3 Streams			
calculating capability		1080P(1920x1080)/1.3M(1280x960)/			
Resolution		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)			
Bit Rate Control		Third Stream: 1080P(1~25/30fps) CBR/VBR			
Bit Rate		H.264: 24~9472Kbps			
		H.265: 14~5632Kbps Auto(ICR) / Color / B/W			
Day/Night BLC Mode		BLC / HLC / WDR(120dB)			
BLC IVIODE		BLC/ HLC/ WDK(1200B)			

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)/M12 D-Coding
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	10 Users /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 E-mark(ECE-Regulation No.10) EN50155
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	<4.5W

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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	Ф106mm×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-2MP IR Mini Dome Network HDBW4231FP-M/ Camera,WDR,PAL M12-0360B DH-IPC-2MP IR Mini Dome Network HDBW4231FN-M/ Camera,WDR,NTSC M12-0360B IPC-HDBW4231FP-M/ 2MP IR Mini Dome Network M12-0360B Camera,WDR,PAL IPC-HDBW4231FN-M/ 2MP IR Mini Dome Network M12-0360B Camera,WDR,NTSC DH-IPC-2MP IR Mini Dome Network HDBW4231FP-M/ Camera,WDR,PAL M12-0280B DH-IPC-2MP IR Mini Dome Network HDBW4231FN-M/ Camera,WDR,NTSC M12-0280B 2MP camera IPC-HDBW4231FP-M/ 2MP IR Mini Dome Network M12-0360B Camera.WDR.PAL IPC-HDBW4231FN-M/ 2MP IR Mini Dome Network Camera, WDR, NTSC M12-0360B DH-IPC-2MP IR Mini Dome Network HDBW4231FP-M/ Camera.WDR.PAL M12-0600B DH-IPC-2MP IR Mini Dome Network HDBW4231FN-M/ Camera, WDR, NTSC M12-0600B IPC-HDBW4231FP-M/ 2MP IR Mini Dome Network M12-0600B Camera,WDR,PAL IPC-HDBW4231FN-M/ 2MP IR Mini Dome Network M12-0600B Camera,WDR,NTSC PFB204W Wall mount Accessories PFA139 Junction box (optional)

Pole mount

Accessories

Optional:





PFB204W

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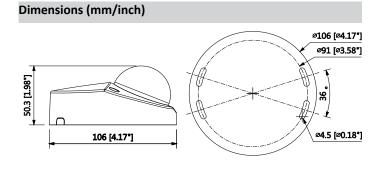


PFA139 Junction Box

Wall Mount

PFA152 Pole Mount

Junction box	Pole Mount	
PFA139	PFB204W + PFA152	
Wall Mount		
PFB204W		







PFA152