

DH-IPC-HDBW4231E-ASE

2MP IR Mini Dome Network Camera



System Overview

With upgraded H.265 encoding technology, Eco-savvy series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features starlight, smart IR technology and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

Functions

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.002lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range(WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 50/60fps@1080P(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)
- · 1/1 Alarm in/out, 1/1 audio in/out
- $\cdot\,$ Max. IR LEDs Length 30m
- Micro SD memory, IP67, IK10, PoE



Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity, allowing the camera to operate in the harshest environments.

Protection(IP67, IK10, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



Technical Specification

Camera	
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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 Syste	m	Progressive				
Electronic Shutt	er Speed	Auto/Manual, 1/3(4)~1/100000s				
Minimum Illumination		0.007Lux/F1.6(Color,1/3s,30IRE) 0.06Lux/F1.6(Color,1/30s,30IRE) 0Lux/F1.6(IR on)				
S/N Ratio		More than 50dB				
IR Distance		Distance up to 30m (98ft)				
IR On/Off Cont	rol	Auto/ Manual				
IR LEDs		18				
Lens						
Lens Type		Fixed				
Mount Type		Board-in				
Focal Length		2.8mm (3.6mm, 6mm optional)				
Max. Aperture		F1.6 (F1.6, F1.6)				
Angle of View		H: 110° (87°, 52°), V:58° (46°, 30°)				
Optical Zoom		N/A				
Focus Control		Fixed				
Close Focus Dis	tance	0.7m(1.2m, 2.4m)				
	Lens	Detect	Observe	Recognize	Identify	
DOBI Distance	2.8 mm	43m(141ft)	17m(56ft)	9m(30ft)	4m(13ft)	
DORI Distance	3.6 mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	
	6.0 mm	83m(289ft)	33m(108ft)	17m(56ft)	8m(26ft)	
Pan/Tilt/Ro	tation					
Pan/Tilt/Rotati	on Range	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°				
Intelligence						
IVS		Tripwire, Int	rusion, Object	: Abandoned/	Missing	
	ligent Functions	Face Detecti				
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)				
		Main Stream: 1080P(1~50/60fps)				
Frame Rate		Sub Stream: D1(1~50/60fps)				
		Third Stream: 1080P(1~25/30fps)				
Bit Rate Control		CBR/VBR				
Bit Rate		H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps				
Day/Night		Auto(ICR) / C				
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
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
Interface	
Video Interface	N/A
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Electrical	
Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	<5W

Eco savvy 3.0 | DH-IPC-HDBW4231E-ASE

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	Φ109.9mm×81mm (4.33"×3.19")
Net Weight	0.41kg (0.91lb)
Gross Weight	0.53 kg (1.17lb)
Gross Weight	0.53 kg (1.17lb)

Ordering Information

Туре	Part Number	Description
	DH-IPC- HDBW4231EP-ASE- 0360B	2MP IR Mini Dome Network Camera, WDR,PAL
	DH-IPC- HDBW4231EN-ASE- 0360B	2MP IR Mini Dome Network Camera, WDR,NTSC
	IPC-HDBW4231EP- ASE-0360B	2MP IR Mini Dome Network Camera, WDR,PAL
	IPC-HDBW4231EN- ASE-0360B	2MP IR Mini Dome Network Camera, WDR,NTSC
	DH-IPC- HDBW4231EP-ASE- 0280B	2MP IR Mini Dome Network Camera, WDR,PAL
2MP camera	DH-IPC- HDBW4231EN-ASE- 0280B	2MP IR Mini Dome Network Camera, WDR,NTSC
	IPC-HDBW4231EN- ASE-0280B	2MP IR Mini Dome Network Camera, WDR,PAL
	IPC-HDBW4231EN- ASE-0280B	2MP IR Mini Dome Network Camera, WDR,NTSC
	DH-IPC- HDBW4231EP-ASE- 0600B	2MP IR Mini Dome Network Camera, WDR,PAL
	DH-IPC- HDBW4231EP-ASE- 0600B	2MP IR Mini Dome Network Camera, WDR,NTSC
	DH-IPC- HDBW4231EP-ASE- 0600B	2MP IR Mini Dome Network Camera, WDR,PAL
	DH-IPC- HDBW4231EP-ASE- 0600B	2MP IR Mini Dome Network Camera, WDR,NTSC
	PFB203W	Wall mount
	PFA136	Junction box
Accessories (optional)	PFA152-E	Pole mount
	LR1002	ePoE Over Coax Converter
	PFA200W	Rain shade

Accessories

Optional:



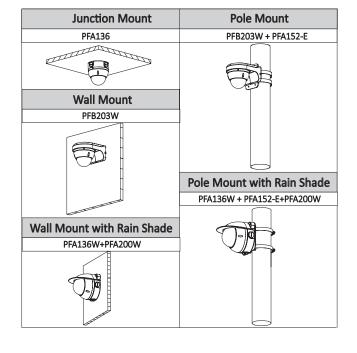




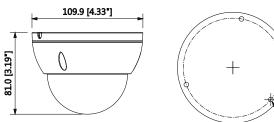
PFA136 PFB203W Wall Mount Junction Box

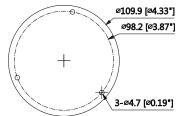
PFA152-E

PFA200W LR1002 Pole Mount ePoE Over Coax Converter Rain shade



Dimensions (mm/inch)







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