

DH-IPC-HDBW4431E-ASEB

4MP 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 10Mbps via Cat5 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.

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.

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

- · 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4M(2688×1520)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot\,$ 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
- · Max. IR LEDs Length 30m
- · Micro SD memory, IP67, IK10, PoE



warning message to inspect the camera.

Environmental

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

Protection(IP67, IK10, wide voltage)

The camera allows for $\pm 30\%$ 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	Camera					
Image Sensor		1/3"4Megapixel progressive scan CMOS				
Effective Pixels		2688(H)x1520(V)				
RAM/ROM		512MB/32MB				
Scanning Sys	tem	Progressive				
Electronic Shu		Auto/Manual, 1/3(4)~1/100000s				
Minimum Illumination		0.01Lux/F1.6(Color,1/3s,30IRE) 0.4Lux/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 Cor	ntrol	Auto/ Manual				
IR LEDs		18				
Lens						
Lens Type		Fixed				
Mount Type		Board-in				
Focal Length		2.8mm (3.6mm, 6mm optional)				
Max. Aperture	9	F1.6 (F1.6, F1.6)				
Angle of View		H: 104° (83°, 55°), V: 55° (45°, 31°)				
Optical Zoom		N/A				
Focus Contro	I	Fixed				
Close Focus I	Distance	0.9m (1.5m,	3.1m)			
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8 mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)	
	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)	
	6.0 mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)	
Pan/Tilt/Rotation						
Pan/Tilt/Rotation Range		Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°				
Intelligence						
IVS		Tripwire, Intrusion, Object Abandoned/Missing				
Advanced Inte	lligent Functions	Face Detection				
Video						
Compression		H.265+/H.265/H.264+/H.264				
Streaming Capability		3 Streams				
Resolution		4M(2688×1520)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				
Frame Rate		Main Stream: 4M(1~25/30fps)				
		Sub Stream: D1(1~25/30fps)				
		Third Stream: 720P(1~25/30fps)				
Bit Rate Control		CBR/VBR				
Bit Rate		H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps				
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, polygonal)	
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, CIFS, SMB;	
Interoperability	ONVIF, PSIA, CGI	
Streaming Method	Unicast / Multicast	
Max. User Access	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	

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Environmental

Operating Conditions	-30°C~+60°C(-22°F~+140°F)/Lessthan95%RH		
Strorage Conditions	-30°C~+60°C(-22°F~+140°F)/Lessthan95%RH		
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)		

Ordering Information

ASEB-0360B DH-IPC- HDBW4431EN- ASEB-0360B IPC-HDBW4431EP- ASEB-0360B IPC-HDBW4431EP- ASEB-0360B AMP IR Mini Dome Network Camera, NTSC DH-IPC- HDBW4431EP- ASEB-0280B DH-IPC- HDBW4431EN- ASEB-0280B IPC-HDBW4431EN- ASEB-0280B IPC-HDBW4431EP- ASEB-0280B IPC-HDBW4431EP- ASEB-0280B AMP IR Mini Dome Network Camera, NTSC DH-IPC- HDBW4431EP- ASEB-0280B AMP IR Mini Dome Network Camera, NTSC DH-IPC- HDBW4431EP- ASEB-0280B AMP IR Mini Dome Network Camera, NTSC DH-IPC- HDBW4431EP- ASEB-0280B AMP IR Mini Dome Network Camera, NTSC DH-IPC- HDBW4431EP- ASEB-0600B AMP IR Mini Dome Network Camera, NTSC DH-IPC- HDBW4431EP- ASEB-0600B AMP IR Mini Dome Network Camera, NTSC ASEB-0600B IPC-HDBW4431EP- ASEB-0600B AMP IR Mini Dome Network Camera, NTSC	Туре	Part Number	Description
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ASEB-0600B IPC-HDBW4431EN- ASEB-0600B 4MP IR Mini Dome Network Camera, NTSC		HDBW4431EN-	4MPIRMiniDomeNetworkCamera,NTSC
ASEB-0600B 4MP IR Mini Dome Network Camera, N I SC			4MPIRMiniDomeNetworkCamera,PAL
PFB203W Wall mount			4MPIRMiniDomeNetworkCamera,NTSC
	Accessories (optional)	PFB203W	Wall mount
PF152-E Pole mount		PF152-E	Pole mount
DEA136 Junction box		PFA136	Junction box
LR1002 ePoE Over Coax Converter		LR1002	ePoE Over Coax Converter
PFA200W Rain shade		PFA200W	Rain shade

Accessories

Optional:



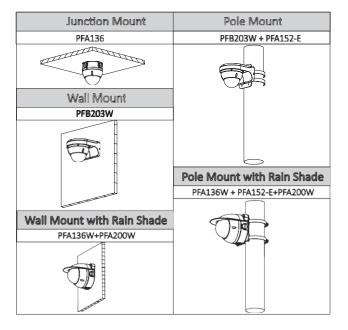


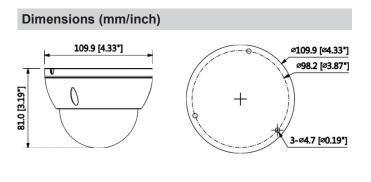


PFA136 PFB Junction Box Wall I

PFB203W PF Wall Mount Pole

PFA152-E LR1002 PFA200W Pole Mount ePoE Over Coax Converter Rain shade







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