

DH-IPC-HDBW1431E

4MP WDR IR Mini-Dome Network Camera



System Overview

The IR Megapixel Fixed camera delivers 2MP/4MP/5MP resolution with a 2.8mm/3.6mm fixed lens.The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

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.

Intelligent Video analysis (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

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.

- · 1/3" 4Megapixel progressive CMOS
- · H.265& H.264 dual-stream encoding
- · 20fps@4M(2688×1520) &25/30fps@3M(2304×1296)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm optional)
- · Max IR LEDs Length 30m
- · IP67, IK10, PoE



Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30m (98ft).

Protection (IP67, IK10, wide voltage)

The camera allows for ±10% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV 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.

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.

Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Lite Series | DH-IPC-HDBW1431E

Technical Specification

Camera	amera
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Day/Night

BLC Mode

Camera					
Image Sensor		1/3" 4Megapixel progresive CMOS			
Effective Pixels		2688(H)x1520(V)			
RAM/ROM		512MB/32MB			
Scanning System	ı	Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 30m(98ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		24	24		
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8mm (3.6mm optional)			
Max. Aperture		F2.0/F2.0			
Angle of View		H:104°/87°, V:57°/48°			
Focus Control		Fixed			
Close Focus Distance		N/A			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	63(207ft)	25(82ft)	13(43ft)	6(20ft)
	3.6 mm	80(262ft)	32(105ft)	16(52ft)	8(26ft)
PTZ					
Pan/Tilt Range		Pan:0° ~355° ;Tilt:0° ~65° ;Rotation:0° ~355°			
Intelligence					
IVS		Tripwire, Intrusion			
Video					
Compression		H.265+/H.265/H.264+/H.264			
Streaming Capal	bility	2 Streams			
Resolution		4M(2688x1520/2560x1440)/3M(2304×1296)/ 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/ CIF(352×288/352×240)			
Frame Rate		4M(1~20fps)/3M (1~25/30fps)			
		D1/CIF(1 ~ 25/30fps)			
Bit Rate Control		CBR/VBR			
Bit Rate		H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps			

Auto(ICR) / Color / B/W

BLC / HLC / WDR(120dB)

Auto/Natural/Street Lamp/Outdoor/Manual
Auto/Manual
3D DNR
Off / On (4 Zone, Rectangle)
Off / On (4 Zone)
N/A
Support
16x
0°/90°/180°/270°
Off / On
Off / On (4 Area, Rectangle)
N/A
RJ-45 (10/100Base-T)
HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCP ;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP
ONVIF, PSIA, CGI
Unicast / Multicast
10 Users / 20 Users
NAS Local PC for instant recording
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
N/A
N/A
N/A
DC12V PoE(802.3af)(Class 0)
<4.6W

Lite Series | DH-IPC-HDBW1431E

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	Ф109.9mm × 81mm (4.33" x 3.19")
Net Weight	0.34Kg (0.75lb)
Gross Weight	0.47Kg (1.04lb)

Ordering Information					
Туре	Part Number	Description			
4MP camera	DH-IPC- HDBW1431EP -0280B	4MP WDR IR Mini-Dome Network Camera, 2.8mm, PAL			
	DH-IPC- HDBW1431EN -0280B	4MP WDR IR Mini-Dome Network Camera, 2.8mm,NTSC			
	IPC-HDBW1431EP -0280B	4MP WDR IR Mini-Dome Network Camera, 2.8mm,PAL			
	IPC-HDBW1431EN -0280B	4MP WDR IR Mini-Dome Network Camera, 2.8mm,NTSC			
	DH-IPC- HDBW1431EP -0360B	4MP WDR IR Mini-Dome Network Camera, 3.6mm,PAL			
	DH-IPC- HDBW1431EN -0360B	4MP WDR IR Mini-Dome Network Camera, 3.6mm,NTSC			
	IPC-HDBW1431EP -0360B	4MP WDR IR Mini-Dome Network Camera, 3.6mm,PAL			
	IPC-HDBW1431EN -0360B	4MP WDR IR Mini-Dome Network Camera, 3.6mm,NTSC			
Accessories (optional)	PFA136	Junction box			
	PFB203W	Wall mount			
	PFA152-E	Pole mount			
	PFA200W	Rain shade			

Accessories

Optional:



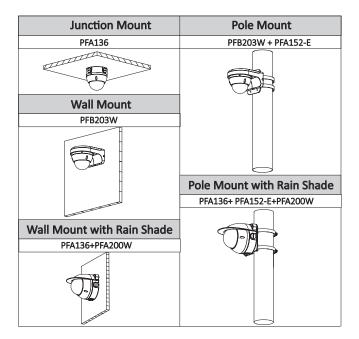




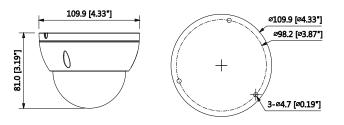
PFA136 Function Box

PFB203W Wall mount

PFA152-E PFA200W Pole mount Rain Shade



Dimensions (mm/inch)





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