

# DH-IPC-HDBW1431E-S

4MP WDR IR Mini-Dome Network Camera





- · 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
- · Micro SD card slot, up to 128GB
- · 2.8 mm fixed lens (3.6 mm optional)
- · Max IR LEDs Length 30m
- · IP67, IK10, PoE













## **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.

#### 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.



BLC Mode

BLC/HLC/WDR(120dB)

Technical Specification							White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Camera						Gain Control	Auto/Manual	
Image Sensor		1/3" 4Megapixel progresive CMOS					Noise Reduction	3D DNR
Effective Pixels		2688(H)x1520(V)					Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		512MB/32MB					Region of Interest	Off / On (4 Zone)
Scanning System		Progressive					Electronic Image Stabilization (EIS)	N/A
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Smart IR	Support
Minimum Illumination		0.08Lux/F2.0( Color,1/3s,30IRE) 0.3Lux/F2.0( Color,1/30s,30IRE) 0Lux/F2.0(IR on)					Digital Zoom	16x
S/N Ratio		More than 50dB					Flip	0°/90°/180°/270°
		Distance up to 30m(98ft)					Mirror	Off / On
IR Distance		Auto/ Manual					Privacy Masking	Off / On (4 Area, Rectangle)
IR On/Off Control		24					Audio	
IR LEDs		27					Compression	N/A
Lens		Fixed					Network	
Lens Type		Fixed  Roard in					Ethernet	RJ-45 (10/100Base-T)
Mount Type  Focal Length			Board-in  2.8mm (3.6mm optional)				Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHi ;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP
Max. Aperture		F2.0/F2.0					Interoperability	ONVIF, PSIA, CGI
Angle of View		H:104°/87°,	H:104°/87°, V:57°/48°				Streaming Method	Unicast / Multicast
Focus Control		Fixed	Fixed				Max. User Access	10 Users / 20 Users
Close Focus Distance		N/A					Edge Storage	NAS Local PC for instant recording
	Lens	Detect	Observe	Recognize	Identify			Micro SD Card 128GB
DORI Distance	2.8 mm	63(207ft)	25(82ft)	13(43ft)	6(20ft)		Web Viewer	IE, Chrome, Firefox, Safari
	3.6 mm	80(262ft)	32(105ft)	16(52ft)	8(26ft)		Management Software	Smart PSS, DSS,Easy4ip
PTZ							Smart Phone	IOS, Android
Pan/Tilt Range		Pan:0° ~35!	5° ;Tilt:0° ~65°	';Rotation:0° ′	~355°		Certifications	
Intelligence	Intelligence		trusion				Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Video							Interface	
Compression		H.265+/H.265/H.264+/H.264					Video Interface	N/A
Streaming Capability		2 Streams					Audio Interface	N/A
Streaming Capability		4M(2688x1520/2560x1440)/3M(2304×1296)/					RS485	N/A
Resolution		1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/ CIF(352×288/352×240)					Alarm	N/A
Frame Rate		4M(1 ~ 20fps)/3M (1 ~ 25/30fps)					Electrical	
		D1/CIF(1 ~ 25/30fps)					Power Supply	DC12V PoE(802.3af)(Class 0)
Bit Rate Control		CBR/VBR					Power Consumption	<4.6W
Bit Rate		H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps						
Day/Night		Auto(ICR) / Color / B/W						

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

# Accessories

# Optional:









PFA136 Function Box

PFB203W Wall mount

PFA152-E Pole mount

PFA200W Rain Shade

Junction Mount	Pole Mount
PFA136	PFB203W + PFA152-E
Wall Mount	
PFB203W	
	Pole Mount with Rain Shade
	PFA136+ PFA152-E+PFA200W
Wall Mount with Rain Shade	
PFA136+PFA200W	

# Dimensions (mm/inch)





