

DH-IPC-HDBW1431E

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
- · 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 4MP 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 Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) 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 Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard 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

closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30m (98ft).

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

Protection (IP67, IK10, wide voltage)

The camera allows for ±25% 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 complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.).

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.



Technical Specification						Bit Rate	H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps
Camera						Day/Night	Auto(ICR) / Color / B/W
Image Sensor		1/3" 4Megapixel progresive CMOS				BLC Mode	BLC / HLC / WDR(120dB)
Effective Pixels		2688(H)x1520(V)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
RAM/ROM		512MB/32MB				Gain Control	Auto/Manual
Scanning System		Progressive				Noise Reduction	3D DNR
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Motion Detection	Off / On (4 Zone, Rectangle)
Minimum Illumination		0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)				Region of Interest Electronic Image Stabilization	Off / On (4 Zone)
S/N Ratio		More than 50dB				(EIS)	N/A
IR Distance		Distance up to 30m(98ft)				Smart IR	Support
IR On/Off Contro	ol	Auto/ Manual				Digital Zoom	16x
IR LEDs		24				Flip	0°/90°/180°/270°
Lens						Mirror	Off / On
Lens Type		Fixed				Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type		Board-in				Audio	
Focal Length		2.8mm (3.6	mm optional)			Compression	N/A
Max. Aperture		F2.0/F2.0				Network	
Angle of View		H:104°/87°, V:57°/48°				Ethernet	RJ-45 (10/100Base-T)
Focus Control		Fixed				Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UPnP; NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;TLS
Close Focus Distance		N/A				Interoperability	ONVIF Profile S&G, API
	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
DORI Distance	2.8 mm	63(207ft)	25(82ft)	13(43ft)	6(20ft)	Max. User Access	10 Users / 20 Users
	3.6 mm	80(262ft)	32(105ft)	16(52ft)	8(26ft)	Edge Storage	NAS Local PC for instant recording
PTZ						Web Viewer	IE, Chrome, Firefox, Safari
Pan/Tilt Range		Pan:0° ~355	°;Tilt:0° ~65°	;Rotation:0° ^	~355°	Management Software	Smart PSS, DSS, DMSS
Intelligence						Smart Phone	IOS, Android
Event Trigger		Network dis	connection, I	tampering, So p address cor	ene changing, aflict, Illegal	Certifications	
IVS		Tripwire, Int	rusion			Certifications	CE (EN 60950:2000) UL:UL60950-1
Video					Interface	FCC: FCC Part 15 Subpart B	
Compression		H.265/H.26	4H/MJPEG(Su	b Stream)		Video Interface	N/A
Smart Codec		Support H.2	65+/H.264+			Audio Interface	N/A
Streaming Capability		2 Streams				RS485	N/A
Resolution		20×1080)/7	20P(1280×72	4×1296)/1080 0)/VGA(640× IF(352×288/3	480)/	Alarm	N/A
Frame Rate		Main Stream	n: 4M(1 ~ 20f	os)/3M (1 ~ 25	5/30fps)	Electrical	
		Sub Stream	D1(1 ~ 25/30	fps)		Power Supply	DC12V, PoE(IEEE 802.3af)(Class 0)
Bit Rate Control		CBR/VBR				Power Consumption	< 5.5W

Lite Series | DH-IPC-HDBW1431E

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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						
	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						
4MP camera	IPC-HDBW1431EN -0280B	4MP WDR IR Mini-Dome Network Camera, 2.8mm, NTSC						
4IVIF Calliela	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						
	PFA136	Junction box						
Accessories	PFB203W	Wall mount						
(optional)	PFA152-E	Pole mount						
	PFA200W	Rain shade						

Accessories

Optional:









PFA136 Junction 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)





