

DH-IPC-HDBW1431E-S

4MP WDR IR Mini-Dome Network Camera



System Overview

The IR Megapixel Fixed Mini Dome camera delivers 4MP resolution with a choice of 2.8mm or 3.6mm wide angle lens options. 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

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens

Regions of interest

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting 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).

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.

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



Environmental

With a temperature range of-30 °C to +60 °C (-22°F to +140 °F), the camera is designed for extreme temperature environments. The camera complies with an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Protection

Supporting $\pm 10\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Interoperability

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

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity, optimize settings specific contents include: Improve compression efficiency, improve the Robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay, reduce complexity, etc.



Technical Specification

Camera	
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BLC Mode

Camera						
Image Sensor		1/3" 4Mega	1/3" 4Megapixel progressive CMOS			
Effective Pixels		2688(H)x1520(V)				
RAM/ROM		512MB/32N	ИB			
Scanning System	ı	Progressive				
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s				
Minimum Illumination		0.03Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)				
S/N Ratio		More than 45dB				
IR Distance		Distance up	Distance up to 30m(98ft)			
IR On/Off Contro	ol	Auto/ Manu	ıal			
IR LEDs		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				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	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	Pan:0° ~355° ;Tilt:0° ~64° ;Rotation:0° ~355°			
Video						
Compression		H.265+/H.265/H.264+/H.264				
Streaming Capability		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)				
гтате кате		D1/CIF(1 ~ 25/30fps)				
Bit Rate Control		CBR/VBR				
Bit Rate		H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps				
Day/Night		Auto(ICR) / Color / B/W				

BLC / HLC / WDR(120dB)

White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image	Support
Smart IR	Support
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Audio	
Compression	N/A
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP; DHCP;DNS;DDNS;PPPOE;IPv4/v6;Qo5;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP;IGMP;SNMP
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	20 Users
Edge Storage	NAS Local PC for instant recording Micro SD Card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS,Easy4ip
Smart Phone	iPhone, iPad, Android Phone
Certifications	
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Interface	
Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A
Electrical	
Power Supply	DC12V PoE(802.3af)(Class 0)
Power Consumption	<4.58W

Lite Series | DH-IPC-HDBW1431E-S

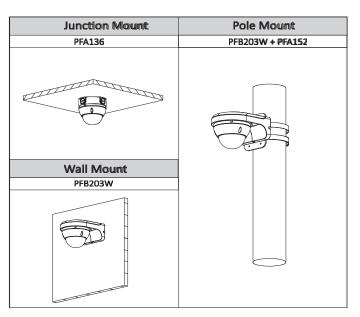
Environmental	
Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Storage Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	Ф109.9mm × 81mm (4.33" x 3.19")
Net Weight	0.34Kg (0.75lb)
Gross Weight	0.47Kg (1.04lb)

Accessories

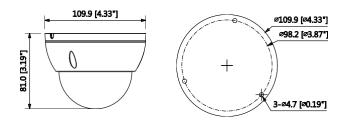
Optional:



PFB203W PFA152 Wall mount Pole mount



Dimensions (mm/inch)



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TECHNOLOGY

Ordering Information				
Туре	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		
4MP camera	IPC-HDBW1431EN-S -0280B	4MP WDR IR Mini-Dome Network Camera, 2.8mm,NTSC		
-init califera	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		
Accessories (optional)	PFA136	Junction box		
	PFB203W	Wall mount		
	PFA152	Pole mount		