

DH-IPC-HDW1431S

4MP WDR IR Eyeball 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.

Smart IR Technology

With IR illumination, detailed images can be captured in low light or

- · 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, HLC, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6mm optional)
- · Max IR LEDs Length 30m
- · IP67, PoE



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, 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), 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.



Technical Specification

Day/Night

BLC Mode

	•					
Camera						
Image Sensor		1/3" 4Megapixel progresive CMOS				
Effective Pixels		2688(H) x1520(V)				
RAM/ROM		512MB/32MB				
Scanning System		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 than50dB				
IR Distance		Distance up to 30m(98ft)				
IR On/Off Control		Auto/ Manual				
IR LEDs		12				
Lens						
Lens Type		Fixed				
Mount Type		Board-in				
Focal Length		2.8 mm (3.6 mm 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° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°				
Intelligence						
IVS		Tripwire, Intru	Tripwire, Intrusion			
Video						
Compression		H.265+/H.265/H.264+/H.264				
Streaming Capa	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)				
		D1/CIF(1~25/	D1/CIF(1 ~ 25/30fps)			
Bit Rate Control		CBR/VBR				
Bit Rate		H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps				

Auto(IR-Cut) / Color / B/W

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				
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;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCP ;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP				
Interoperability	ONVIF, PSIA, CGI				
Streaming Method	Unicast / Multicast				
Max. User Access	10 Users / 20 Users				
Edge Storage	NAS Local PC for instant recording				
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	N/A				
RS485	N/A				
Alarm	N/A				
Electrical					
Power Supply	DC12V PoE (802.3af)(Class 0)				
Power Consumption	<4.7W				

Lite Series | DH-IPC-HDW1431S

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH			
Strorage Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH			
Ingress Protection	IP67			
Vandal Resistance	N/A			
Construction				
Casing	Metal+Plastic			
Dimensions	Φ108mm×84.9mm(4.25"x3.15")			
Net Weight	0.23Kg(0.51lb)			
Gross Weight	0.387Kg(0.85lb)			

Accessories

Optional:





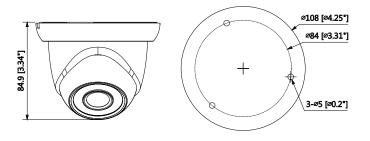


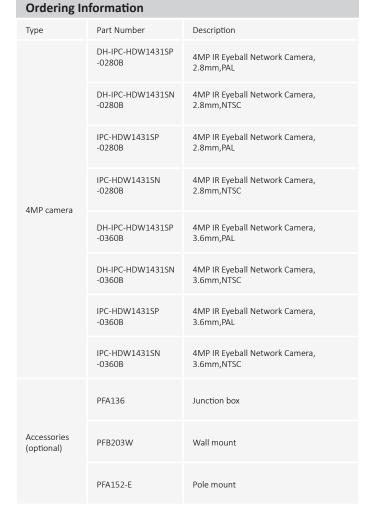
PFA136 Function Box PFB203W Wall mount

PFA152-E Pole mount

Junction Mount	Pole Mount	
PFA136	PFB203W + PFA152-E	
CO CO CO		
Wall Mount		
PFB203W		

Dimensions (mm/inch)







Rev 001.001© 2017 Dahua. All rights reserved. Design and specifications are subject to change without notice