

# 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  $\pm 10\%$  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					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	N/A
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				(EIS)	.,,,,
Minimum Illumination		0.08Lux/F2.0( Color,1/3s,30IRE) 0.3Lux/F2.0( Color,1/30s,30IRE)				Smart IR  Digital Zoom	Support 16x
-6		OLux/F2.0(IR on)				Flip	0°/90°/180°/270°
S/N Ratio		More than 50dB					
IR Distance		Distance up to 30m(98ft)				Mirror	Off/On
IR On/Off Control		Auto/ Manua	l			Privacy Masking	Off / On (4 Area, Rectangle)
IR LEDs		12				Audio	
Lens						Compression	N/A
Lens Type		Fixed	Fixed			Network	
Mount Type		Board-in				Ethernet	RJ-45 (10/100Base-T)
Focal Length		2.8 mm (3.6 mm optional)				Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;D;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTI
Max. Aperture		F2.0/F2.0				Interoperability	ONVIF, PSIA, CGI
Angle of View		H:104°/87°, V:57°/48°				Streaming Method	Unicast / Multicast
Focus Control  Close Focus Distance		Fixed				Max. User Access	10 Users / 20 Users
Close Focus Dist	Lens	N/A Detect	Observe	Recognize	Identify	Edge Storage	NAS Local PC for instant recording
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° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°				Certifications	
Intelligence		Tripwire, Intrusion				Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
IVS Video		mpwire, intri	usion			Interface	
Video		U 265 / U 265 /U 264 /U 264				Video Interface	N/A
Compression		H.265+/H.265/H.264+/H.264				Audio Interface	N/A
Streaming Capability		2 Streams 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
		4M(1 ~ 20fps)/3M (1 ~ 25/30fps)				Electrical	
Frame Rate		D1/CIF(1 ~ 25/30fps)				Power Supply	DC12V PoE (802.3af)(Class 0)
Bit Rate Control		CBR/VBR				Power Consumption	<4.7W
Bit Rate		H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps					
Day/Night		Auto(IR-Cut)	/ Color / B/W				
BLC Mode		BLC / HLC / WDR(120dB)					



# Lite Series | DH-IPC-HDW1431S

## Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	N/A

#### Construction

Casing	Metal+Plastic	
Dimensions	Ф108mm×84.9mm(4.25"x3.15")	
Net Weight	0.23Kg(0.51lb)	
Gross Weight	0.387Kg(0.85lb)	

Ordering Information							
Туре	Part Number	Description					
	DH-IPC-HDW1431SP -0280B	4MP IR Eyeball Network Camera, 2.8mm,PAL					
	DH-IPC-HDW1431SN -0280B	4MP IR Eyeball Network Camera, 2.8mm,NTSC					
	IPC-HDW1431SP -0280B	4MP IR Eyeball Network Camera, 2.8mm,PAL					
4MP camera	IPC-HDW1431SN -0280B	4MP IR Eyeball Network Camera, 2.8mm,NTSC					
4Wir Calliela	DH-IPC-HDW1431SP -0360B	4MP IR Eyeball Network Camera, 3.6mm,PAL					
	DH-IPC-HDW1431SN -0360B	4MP IR Eyeball Network Camera, 3.6mm,NTSC					
	IPC-HDW1431SP -0360B	4MP IR Eyeball Network Camera, 3.6mm,PAL					
	IPC-HDW1431SN -0360B	4MP IR Eyeball Network Camera, 3.6mm,NTSC					
	PFA136	Junction box					
Accessories (optional)	PFB203W	Wall mount					
	PFA152-E	Pole mount					

## **Accessories**

# Optional:







PFA136 Function Box

PFB203W Wall mount

PFA152-E Pole mount

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

# Dimensions (mm/inch)







