

DH-IPC-HDW1531S

5MP WDR IR Eyeball Network Camera



System Overview

The IR Megapixel Fixed camera delivers 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 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.

- 1/2.7" 5Megapixel progressive CMOS
- · H.265& H.264 dual-stream encoding
- · 15fps@5M(2592×1944) &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



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, wide voltage)

The camera allows for $\pm 25\%$ 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), 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.



Lite Series | DH-IPC-HDW1531S

Technical Specification

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Camera						
Image Sensor		1/2.7" 5Megapixel progresive CMOS				
Effective Pixels		2592(H) x1944(V)				
RAM/ROM		512MB/32MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				
Minimum Illumination		0.03Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/2.0(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	Fixed			
Mount Type		Board-in				
Focal Length		2.8 mm (3.6 mm optional)				
Max. Aperture	-		F2.0/F2.0			
Angle of View		H:96°/78°, V:70°/58°				
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						
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal access, Storage anomaly				
IVS		Tripwire, Intrusion				
Video						
Compression		H.265/H.264H/MJPEG(Sub Stream)				
Smart Codec		Support H.265+/H.264+				
Streaming Capability		2 Streams				
Resolution		5M(2592×1944)/4M(2688×1520)/3M(2304×1296/2048 ×1536)/1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)				

Bit Rate	H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps			
Day/Night	Auto(ICR) / Color / B/W			
BLC Mode	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 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;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			
Interoperability	ONVIF Profile S&G, API			
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, DMSS			
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 (IEEE 802.3af)(Class 0)			
Power Consumption	<6W			

Main Stream: 5M(1 ~ 15fps)/3M (1 ~ 25/30fps)

Sub Stream: D1(1 ~ 25/30fps)

CBR/VBR

Frame Rate

Bit Rate Control

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Environmental

Ordering Information

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH	
Stroage 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:





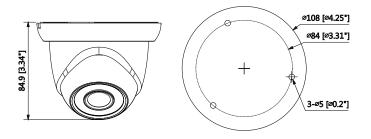


PFA130-E Junction Box PFB203W Wall mount F

PFA152-E Pole mount

Junction Mount	Pole Mount
PFA130-E	PFB203W + PFA152-E
Wall Mount	
PFB203W	

Dimensions (mm/inch)





Туре	Part Number	Description			
4MP camera	DH-IPC-HDW1531SP -0280B	5MP IR Eyeball Network Camera, 2.8mm,PAL			
	DH-IPC-HDW1531SN -0280B	5MP IR Eyeball Network Camera, 2.8mm,NTSC			
	IPC-HDW1531SP -0280B	5MP IR Eyeball Network Camera, 2.8mm,PAL			
	IPC-HDW1531SN -0280B	5MP IR Eyeball Network Camera, 2.8mm,NTSC			
	DH-IPC-HDW1531SP -0360B	5MP IR Eyeball Network Camera, 3.6mm,PAL			
	DH-IPC-HDW1531SN -0360B	5MP IR Eyeball Network Camera, 3.6mm,NTSC			
	IPC-HDW1531SP -0360B	5MP IR Eyeball Network Camera, 3.6mm,PAL			
	IPC-HDW1531SN -0360B	5MP IR Eyeball Network Camera, 3.6mm,NTSC			
Accessories (optional)	PFA130-E	Junction box			
	PFB203W	Wall mount			
	PFA152-E	Pole mount			

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