

DH-IPC-HDW1231S

2MP WDR IR Eyeball Network Camera



System Overview

The IR Megapixel Fixed camera delivers 2MP resolution with a motorized 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.

- · 1/2.8" 2Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 25/30fps@1080P(1920x1080)
- · 120dB WDR, 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 6KV 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	Auto(ICR) / Color / B/W
Camera					BLC Mode	BLC / HLC / 120dB WDR	
Image Sensor		1/2.8" 2Megapixel progresive CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		1920(H) x1080(V)				Gain Control	Auto/Manual
RAM/ROM		256MB/32MB				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detection	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.009Lux/F2.0 (Color,1/3s,30IRE)				Electronic Image	Support
Minimum Illumination		0.07Lux/F2.0 (Color,1/30s,30IRE) 0Lux/F2.0(IR on)				Smart IR	Support
S/N Ratio		More than 50dB				Digital Zoom	16x
IR Distance		Distance up to 30m(98ft)				Flip	0°/90°/180°/270°
IR On/Off Contro	ol	Auto/ Manual				Mirror	Off / On
IR LEDs		12				Privacy Masking	Off / On (4 Area, Rectangle)
Lens						Audio	on / on (+ Area, nectangle)
Lens Type		Fixed				Compression	N/A
Mount Type		Board-in					IV/A
Focal Length		2.8 mm (3.6 m	m optional)			Network	DL 45 (40/400D T)
Max. Aperture		F2.0/F2.0				Ethernet	RJ-45 (10/100Base-T) HTTP;HTTPs;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP;
Angle of View		H:105°/82°,V:5	9°/47°			Protocol	FTP;DHCP;DNS;DDNS;PPPoE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP; TLS
Focus Control		Fixed				Interoperability	ONVIF Profile S&G, API
Close Focus Dist	ance	0.6m(0.9m)				Streaming Method	Unicast / Multicast
	Lens	Detect	Observe	Recognize	Identify	Max. User Access	10 Users / 20 Users
DORI Distance	2.8 mm	43.6m(143ft)	17.4m(57ft)	8.7m(28.5ft)	4.4m(14.4ft)		NAS
	3.6 mm	55.2m(181ft)	22.1m(72.5ft)	11m(36ft)	5.5m(18ft)	Edge Storage	Local PC for instant recording
PTZ						Web Viewer	IE, Chrome, Firefox, Safari
Pan/Tilt Range		Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°				Management Software	Smart PSS, DSS, DMSS
Intelligence						Smart Phone	IOS, Android
Event Trigger			ion, Video tamp Innection, IP add			Certifications	CE (EN 60950:2000)
IVS		Tripwire, Intru				Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Video						Interface	
Compression		H.265/H.264H	/MJPEG(Sub Str	eam)		Video Interface	N/A
Smart Codec		Support H.265+/H.264+				Audio Interface	N/A
Streaming Capability		2 Streams				RS485	N/A
Resolution		1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/ CIF(352×288/352×240)				Alarm	N/A
		Main Stream: 1080P(1 ~ 25/30fps)				Electrical	
Frame Rate		Sub Stream: D	1(1 ~ 25/30fps)			Power Supply	DC12V, PoE (802.3af)(Class 0)
Bit Rate Control		CBR/VBR				Power Consumption	<4.9W
Bit Rate		H.265: 12K ~ 6400Kbps H.264: 32K ~ 10240Kbps					

Lite Series | DH-IPC-HDW1231S

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +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-HDW1231SP	2MP WDR IR Eyeball Network Camera,PAL			
2040	DH-IPC-HDW1231SN	2MP WDR IR Eyeball Network Camera, NTSC			
2MP camera	IPC-HDW1231SP	2MP WDR IR Eyeball Network Camera,PAL			
	IPC-HDW1231SN	2MP WDR IR Eyeball Network Camera, NTSC			
	PFA130-E	Junction box			
Accessories (optional)	PFB203W	Wall mount			
	PFA152-E	Pole mount			

Accessories

Optional:







PFA130-E Junction Box

PFB203W Wall mount

PFA152-E Pole mount

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

Dimensions (mm/inch)





