

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 progressiveCMOS
- · H.265 & H.264 dual-stream encoding
- · 25/30fps@1080P(1920x1080)
- · 120dB WDR, Day/Night(ICR), 3DNR, HLC, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6mm optional)
- · Max IR LEDs Length 30m
- · IP67, IK10, 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.



Part	Technical Specification						Day/Night	Auto(ICR) / Color / B/W
Production Pr						BLC Mode	BLC / HLC / 120dB WDR	
Securing System			1/2.8" 2Megapixel progresive CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Motion Detection			1920(H) x1080(V)				Gain Control	Auto/Manual
Region of Interest Region of Interest Region of Interest Off / On (4 Zene)			256MB/32MB				Noise Reduction	3D DNR
Region of Interest Region of Interest Orlif.or A Zone								
Minimum illumination			-					
Minimum limination Ox/14/7/20 (100 in)	The state of the s							
Solition More than Solid Digital Zoom Dictance up to 30m/(set) File Orj90*/120*/270* Org 70m/(set) Org 70m/(Minimum Illumination		0.07Lux/F2.0 (Color,1/30s,30IRE)					
R On/Off Control	S/N Ratio	S/N Ratio		dB				
IR No/Off Control IR LEDs	IR Distance		Distance up to 30m(98ft)					
Record Privary Masking Off / On (4 Area, Rectangle)	IR On/Off Contro	ol	Auto/ Manual					
Lens Fixed Fixed Compression N/A	IR LEDs		12					
Compression N/A Network	Lens							OII / OII (4 Area, Rectangle)
Mount Type			Fixed					21/4
Focal Length								N/A
Max. Aperture F2.0/F2.0 Angle of View H:105/82*/v.59*/47* Frotocol HTTP.HTTP.TCP.ARR.RTSP.RTCP.LUDP.SMTP. FTP.DHCP.DINS.DONS.PRPRESIPA/ico.Cos.SuPnP. TTLS Focus Control Fixed Interroperability ONVIP Profile S.C.G., API Close Focus Distance 0.6m(0.9m) Interroperability Streaming Method Unicast / Multicast / Multicast DORI Distance 2.8 mm 43.6m(143ft) 22.1m(72.5ft) 1.1m(2.5ft) 5.5m(18ft) 5.5m(18ft) Max. User Access 10 Users / 20 Users PTZ Pan/Tilk Range Pan/0* "360", Tilt.0* "90", Rotation.0* "360" 1.1m(3.6ft) 5.5m(18ft) Web Viewer IE, Chrome, Firefox, Safari Intelligen.ce Motion detection, Video tampering, Scene changing, Network disconnection, ill address conflict, illegal access, Storage anomaly Certifications Certifications Video Intelligen.ce Intelligen.ce Intelligen.ce Certifications Video Interface Certifications Certifications Certifications Certifications Certifications				nm ontional)				
Angle of View							Ethernet	
Fixed							Protocol	FTP;DHCP;DNS;DDNS;PPPoE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;
Lens	Focus Control		Fixed				1.00	
Lens	Close Focus Distance		0.6m(0.9m)					
DORI Distance 2.8 mm		Lens	Detect	Observe	Recognize	Identify		
Sego Storage Local PC for instant recording	DORI Distance	2.8 mm	43.6m(143ft)	17.4m(57ft)	8.7m(28.5ft)	4.4m(14.4ft)	Max. User Access	
Pan/Tilt Range Pan.0* ~360* ;Tilt:0* ~90* ;Rotation:0* ~360* Smart Post, DSS, DMSS Intelligence Smart Phone IOS, Android Certifications Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal access, Storage anomaly Video Video Interface Certifications Certifications Certifications Certifications Certifications Certifications Certifications Video Ui:UI:60950-1 FCC: FCC Part 15 Subpart B Video Interface N/A Smart Codec Support H.265+/H.264+ Audio Interface N/A Streaming Capability 2 Streams RS485 N/A Resolution RS485 N/A Resolution Main Stream: 1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/VGA(640×480)/CIF(352×288/352×240) Main Stream: 1080P(1 ~ 25/30fps) Sub Stream: D1(1 ~ 25/30fps) Bit Rate Control CBR/VBR Management Software Smart Poss, DSS, DMSS Smart Phone IOS, Android Certifications Certifications Certifications Certifications Add Interface N/A Alarm N/A Electrical Power Supply DC12V, PoE (802.3af)(Class 0) 4.9W		3.6 mm	55.2m(181ft)	22.1m(72.5ft)	11m(36ft)	5.5m(18ft)	Edge Storage	
Intelligence							Web Viewer	IE, Chrome, Firefox, Safari
Intelligence Wotion 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 1080P(1920×1080)/1.3M(1280×960)/ CIF(352×288/352×240) Frame Rate Main Stream: 1080P(1 ~ 25/30fps) Sub Stream: D1(1 ~ 25/30fps) Bit Rate Control Certifications Certifications CE (EN 60950:2000) UI: UL60950-1 FCC: FCC Part 15 Subpart B Interface N/A Addio Interface N/A RS485 N/A Alarm N/A Electrical Power Supply DC12V, PoE (802.3af)(Class 0) <4.9W			Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°				Management Software	Smart PSS, DSS, DMSS
Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal access, Storage anomaly IVS Tripwire, Intrusion Certifications Certi	Intelligence	<u>:</u>					Smart Phone	IOS, Android
Storage anomaly Certifications Cer							Certifications	
Video Compression H.265/H.264H/MJPEG(Sub Stream) 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 Frame Rate Main Stream: 1080P(1 ~ 25/30fps) Electrical Frame Rate Sub Stream: D1(1 ~ 25/30fps) Power Supply DC12V, PoE (802.3af)(Class 0) Bit Rate Control CBR/VBR Power Consumption <4.9W		-		aly	dress conflict, l	llegal access,	Certifications	UL:UL60950-1
Compression H.265/H.264H/MJPEG(Sub Stream) 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 Frame Rate Main Stream: 1080P(1 ~ 25/30fps) Electrical Frame Rate Sub Stream: D1(1 ~ 25/30fps) Power Supply DC12V, PoE (802.3af)(Class 0) Bit Rate Control CBR/VBR Power Consumption <4.9W			impwire, intro	SION			Interface	, 65, 7 66 7 41 C 25 645 par C 5
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 Frame Rate Main Stream: 1080P(1 ~ 25/30fps) Electrical Frame Rate Sub Stream: D1(1 ~ 25/30fps) Power Supply DC12V, PoE (802.3af)(Class 0) Bit Rate Control CBR/VBR Power Consumption <4.9W			H 265/H 264H	/MIDEC(Sub St-	eam)			N/A
Streaming Capability 2 Streams RS485 N/A								
1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/ CIF(352×288/352×240)								
Main Stream: 1080P(1 ~ 25/30fps) Electrical	Resolution		720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/					
Frame Rate Sub Stream: D1(1~25/30fps) Bit Rate Control CBR/VBR Power Consumption CBR/VBR H 265: 12K ~ 6400Kbps							Electrical	
Bit Rate Control CBR/VBR Power Consumption <4.9W	Frame Rate				r-/		Power Supply	DC12V, PoE (802.3af)(Class 0)
H.265: 12K ~ 6400Kbps	Bit Rate Control			, , , , , , , , ,			Power Consumption	<4.9W
	Bit Rate		H.265: 12K ~ 6400Kbps H.264: 32K ~ 10240Kbps					

Lite Series | DH-IPC-HDW1231S

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67, IK10
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			
2MD	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:







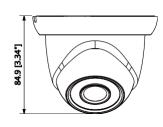
PFA130-E Junction Box

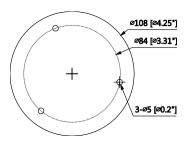
PFB203W Wall mount

Pole mount

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

Dimensions (mm/inch)





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