

DH-IPC-HDW4431M

4MP IR Eyeball Network Camera



System Overview

Eco-savvy products by upgrading H.265 encoding technology, bringing high efficient video compression. It saves bandwidth and storage , energy-saving design to enhance the monitoring system . Meanwhile, the series offers features such as starlight , Smart IR technology , intelligent image analysis techniques. It provides excellent image quality and intelligent and efficient event reminders . This series provides IP67 weatherproof and IK10 anti- violence protection feature. Give customers more value

Functions

Wide Dynamic Range

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

Environmental

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

- \cdot 1/3" 4Megapixel progressive scan CMOS
- H.265&H.264 triple-stream encoding
- · 25/30fps@4M(2688×1520)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm,6mm optional)
- \cdot Max. IR LEDs Length 30m
- IP67, PoE



Protection

Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity , optimize settings specific contents include : Improve compression efficiency , improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay , reduce complexity , etc



Technical Specification

Camera						
Image Sensor		1/3" 4Megapixel progressive scan CMOS				
Effective Pixels		2688(H)x1520(V)				
RAM/ROM		512MB/32MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s				
Minimum Illumination		0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)				
S/N Ratio		More than 50dB				
IR Distance		Distance up to 30m (98ft)				
IR On/Off Control		Auto/ Manual				
IR LEDs		12				
Lens						
Lens Type	Lens Type		Fixed			
Mount Type		Board-in				
Focal Length		2.8mm (3.6mm, 6mm optional)				
Max. Aperture		F2.0 (F2.0, F2.0)				
Angle of View		H: 104° (87°, 55°), V: 57° (48°, 31°)				
Optical Zoom		N/A				
Focus Control			Fixed			
Close Focus Distance		N/A				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8 mm	63m(207ft)	25m(82ft)	13m(43ft)	6m(20ft)	
	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)	
	6.0 mm	117m(384ft)	47m(154ft)	23m(75ft)	12m(39ft)	
Pan/Tilt/Rotation						
Pan/Tilt/Rotati	on Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				
Intelligence						
IVS		Tripwire, Intrusion, Object Abandoned/Missing				
Advanced Intel	ligent Functions	Face Detection				
Video						
Compression		H.265+/H.265/H.264+/H.264				
Streaming Capa	ability	3 Streams				
Resolution		4M(2688×1520)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				
Frame Rate		Main Stream: 4M(1~25/30fps)				
		Sub Stream: D1(1~25/30fps)				
		Third Stream: 720P(1~25/30fps)				
Bit Rate Control		CBR/VBR				
Bit Rate		H.264: 24~10240Kbps H.265: 14~9984Kbps				
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 Detetion	Off / On (4 Zone, Rectangle)			
Region of Interest	Off / On (4 Zone)			
Electronic Image Stabilization (EIS)	N/A			
Smart IR	Support			
Defog	N/A			
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; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP			
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	<6W			

Eco Savvy 3.0 | DH-IPC-HDW4431M

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			
Dimensions	Φ93.4mm×79.4mm (3.68"×3.13")			
Net Weight	0.3Kg (0.66lb)			
Gross Weight	0.42Kg (0.93lb)			

Ordering Information

Туре	Part Number	Description
4MP camera	DH-IPC- HDW4431MP-0360B	4MP IR Eyeball Network Camera,PAL
	DH-IPC- HDW4431MN-0360B	4MP IR Eyeball Network Camera,NTSC
	IPC-HDW4431MP- 0360B	4MP IR Eyeball Network Camera,PAL
	IPC-HDW4431MN- 0360B	4MP IR Eyeball Network Camera,NTSC
	DH-IPC- HDW4431MP-0280B	4MP IR Eyeball Network Camera,PAL
	DH-IPC- HDW4431MN-0280B	4MP IR Eyeball Network Camera,NTSC
	IPC-HDW4431MP- 020B	4MP IR Eyeball Network Camera,PAL
	IPC-HDW4431MN- 020B	4MP IR Eyeball Network Camera,NTSC
	DH-IPC- HDW4431MP-0600B	4MP IR Eyeball Network Camera,PAL
	DH-IPC- HDW4431MN-0600B	4MP IR Eyeball Network Camera,NTSC
	IPC-HDW4431MP- 0600B	4MP IR Eyeball Network Camera,PAL
	IPC-HDW4431MN- 0600B	4MP IR Eyeball Network Camera,NTSC
Accessories (optional)	PFB204W	Wall mount
	PFA13A	Junction box
	PFA152	Pole Mount

Accessories

Optional:

PFA152

Pole Mount



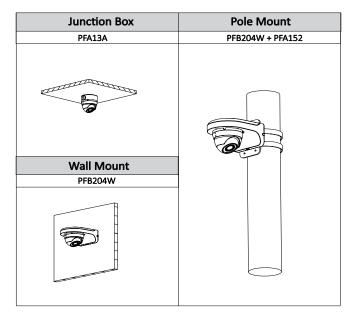


PFB204W

Wall Mount



PFA13A Junction Box



Dimensions (mm/inch)

