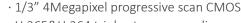


DH-IPC-HDW4431EM-ASE

4MP IR Eyeball Network Camera





- H.265&H.264 triple-stream encoding
- · 25/30fps@4M(2688×1520)
- \cdot 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 Built-in Mic

PO

- \cdot Max. IR LEDs Length 50m
- · Micro SD memory, IP67, PoE



warning message to inspect the camera.

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, allowing the camera to operate in the harshest environments.

Protection(IP67, wide voltage)

The camera allows for ±30% 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.

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.



System Overview

With upgraded H.265 encoding technology, Eco-savvy series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features starlight, smart IR technology and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

Functions

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

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.

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a

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		0.06Lux/F1.6(Color,1/3s,30IRE) 0.4Lux/F1.6(Color,1/30s,30IRE) 0Lux/F1.6(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 50m (164ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		1			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8mm (3.6mm, 6mm optional)			
Max. Aperture		F1.6 (F1.6, F1.6)			
Angle of View		H:104° (83°, 55°), V:58° (45°, 31°)			
Optical Zoom		N/A			
Focus Control		Fixed			
Close Focus Dis	tance	1.1m (1.5m, 3.1m)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)
	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)
	6.0 mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)
Pan/Tilt/Rot	tation				
Pan/Tilt/Rotati	on Range	Pan:0°~360°; Tilt:0°~78°; 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 Capability		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)			
		Main Stream: 4M(1~25/30fps)			
5		Sub Stroom, D1/1~2E /20fps)			

Sub Stream: D1(1~25/30fps) Third Stream: 720P(1~25/10fps)

H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps

Auto(ICR) / Color / B/W

BLC / HLC / WDR(120dB)

CBR/VBR

Frame Rate

Bit Rate Day/Night

BLC Mode

Bit Rate Control

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	G.711a/ G.711Mu/ AAC/ G.726				
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 Mirco SD card 128GB				
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	Built-in Mic				
RS485	N/A				
Alarm	N/A				
Electrical					
Power Supply	DC12V, PoE (802.3af)(Class 0)				
Power Consumption	<5.5W				

Eco Savvy 3.0 | DH-IPC-HDW4431EM-ASE

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH			
Strorage 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			
Dimensions	Ф106mm×93.7mm (4.17"×3.69")			
Net Weight	0.47Kg (1.04lb)			
Gross Weight	0.65Kg (1.43lb)			

Ordering Information

Туре	Part Number	Description		
4MP camera	DH-IPC- HDW4431EMP-ASE- 0360B	4MP IR Eyeball Network Camera, PAL		
	DH-IPC- HDW4431EMN-ASE- 0360B	4MP IR Eyeball Network Camera, NTSC		
	IPC-HDW4431EMP- ASE-0360B	4MP IR Eyeball Network Camera, PAL		
	IPC-HDW4431EMN- ASE-0360B	4MP IR Eyeball Network Camera, NTSC		
	DH-IPC- HDW4431EMP-ASE- 0280B	4MP IR Eyeball Network Camera, PAL		
	DH-IPC- HDW4431EMN-ASE- 0280B	4MP IR Eyeball Network Camera, NTSC		
	IPC-HDW4431EMP- ASE-0280B	4MP IR Eyeball Network Camera, PAL		
	IPC-HDW4431EMN- ASE-0280B	4MP IR Eyeball Network Camera, NTSC		
	DH-IPC- HDW4431EMP-ASE- 0600B	4MP IR Eyeball Network Camera, PAL		
	DH-IPC- HDW4431EMN-ASE- 0600B	4MP IR Eyeball Network Camera, NTSC		
	IPC-HDW4431EMP- ASE-0600B	4MP IR Eyeball Network Camera, PAL		
	IPC-HDW4431EMN- ASE-0600B	4MP IR Eyeball Network Camera, NTSC		
Accessories (optional)	PFB204W	Wall mount		
	PFA130-E	Junction box		
	PFA152-E	Pole Mount		
	LR1002	ePoE Over Coax Converter		

Accessories

Optional:



PFB204W

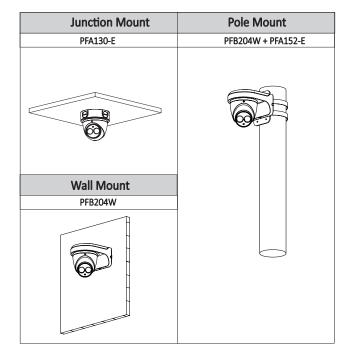




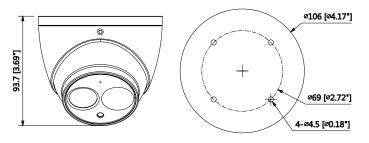
PFA130-E Wall Mount Junction Box

PFA152-E Pole Mount

LR1002 ePoE Over Coax Converter



Dimensions (mm/inch)





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