

DH-IPC-HDW4431EM-AS-S4

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 vandal-proof protection feature. Give customers more value

Functions

Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.01 lux).

Wide Dynamic Range

Embedded 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.

- · 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4Mp(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)
- · Built-in Mic
- · Max. IR LEDs Length 50m
- · Micro SD memory, IP67, PoE













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.

Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 2KV 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.



Technical Specification					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual		
Camera							Gain Control	Auto/Manual
Image Sensor		1/3" 4Megapixel progressive scan CMOS					Noise Reduction	3D DNR
Effective Pixels		2688(H)x1520(V)					Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		512MB/32MB					Region of Interest	Off / On (4 Zone)
Scanning System		Progressive					Electronic Image Stabilization	N/A
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s					(EIS)	19/0
		0.01Lux/F2.0(Color,1/3s,30IRE)					Smart IR	Support
Minimum Illumination		0.3Lux/2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)					Defog	N/A
IR Distance		Distance up to 50m (164ft)					Digital Zoom	16x
IR On/Off Control		Auto/ Manual					Flip	0°/90°/180°/270°
IR LEDs		1					Mirror	Off / On
Lens							Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Fixed					Audio	
Mount Type		Board-in					Addio	
Focal Length		2.8mm (3.6mm, 6mm optional)					Compression	G.711a/ G.711Mu/ AAC/ G.726
Max. Aperture		F2.0 (F2.0, F2.0)					Network	
Angle of View		H:104° (87°, 55°), V:57° (48°, 31°)					Ethernet	RJ-45 (10/100Base-T)
Optical Zoom		N/A						HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP;
Aperture Type Close Focus Dis	tanco	Fixed					Protocol	FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;
Close Focus Dis	Lens	N/A Detect Observe Recognize Identify						IGMP; SNMP
	2.8 mm	63m(207ft)	22m(72ft)	11m(36ft)	6m(20ft)		Interoperability	ONVIF, PSIA, CGI
DORI Distance	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)		Streaming Method	Unicast / Multicast
	6.0 mm	120m(384ft)	48m(157ft)	24m(79ft)	12m(39ft)		Max. User Access	10 Users / 20 Users
Pan/Tilt/Rot	tation							NAS
Pan/Tilt/Rotation	Pan/Tilt/Rotation Range		Tilt:0°~78°; Ro	tation:0°~360)°		Edge Storage	Local PC for instant recording Mirco SD card 128GB
Intelligence							Web Viewer	IE, Chrome, Firefox, Safari
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Management Software	Smart PSS, DSS, Easy4ip
Advanced Intell	ligent Functions	Face Detection					Smart Phone	IOS, Android
Video							Certifications	
Compression		H.265+/H.265/H.264+/H.264						CE (EN 60950:2000)
Streaming Capa	ability	3 Streams					Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Resolution		4M(2688×1520)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1/704×7576/704×480)/					Interface	
		720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)					Video Interface	N/A
Frame Rate		Main Stream: 4M(1~25/30fps)					Audio Interface	Built-in Mic
		Sub Stream: D1(1~25/30fps)					RS485	N/A
		Third Stream: 1080P(1~14/4fps)					Alarm	N/A
Bit Rate Control		CBR/VBR					Electrical	
Bit Rate		H.264: 192~10240Kbps H.265: 80~8192Kbps					Power Supply	DC12V DaE (802 2af)(Class 0)
Day/Night		Auto(ICR) / Color / B/W						DC12V, PoE (802.3af)(Class 0)
BLC Mode		BLC / HLC / WDR(120dB)					Power Consumption	<6.1W

Environmental

Operating Conditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Ф106mm×93.7mm (4.17"×3.69")
Net Weight	0.48Kg (1.06lb)
Gross Weight	0.66Kg (1.46lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HDW4431EMP-AS- 0280B-S4	4MP IR Eyeball Network Camera, PAL			
	DH-IPC- HDW4431EMN-AS- 0280B-S4	4MP IR Eyeball Network Camera, NTSC			
	IPC-HDW4431EMP- AS-0280B-S4	4MP IR Eyeball Network Camera, PAL			
	IPC-HDW4431EMN- AS-0280B-S4	4MP IR Eyeball Network Camera, NTSC			
	DH-IPC- HDW4431EMP-AS- 0360B-S4	4MP IR Eyeball Network Camera, PAL			
48.40	DH-IPC- HDW4431EMN-AS- 0360B-S4	4MP IR Eyeball Network Camera, NTSC			
4MP camera	IPC-HDW4431EMP- AS-0360B-S4	4MP IR Eyeball Network Camera, PAL			
	IPC-HDW4431EMN- AS-0360B-S4	4MP IR Eyeball Network Camera, NTSC			
	DH-IPC- HDW4431EMP-AS- 0600B-S4	4MP IR Eyeball Network Camera, PAL			
	DH-IPC- HDW4431EMN-AS- 0600B-S4	4MP IR Eyeball Network Camera, NTSC			
	IPC-HDW4431EMP- AS-0600B-S4	4MP IR Eyeball Network Camera, PAL			
	IPC-HDW4431EMN- AS-0600B-S4	4MP IR Eyeball Network Camera, NTSC			
	PFB204W	Wall mount			
Accessories (optional)	PFA139	Junction box			
	PFA152-E	Pole Mount			

Accessories

Optional:







PFA139 Junction Box

PFB204W Wall Mount

PFA152-E Pole Mount

Junction Mount	Pole Mount
PFA139	PFB204W + PFA152-E
Wall Mount	
PFB204W	

Dimensions (mm/inch)



