

DH-IPC-HDW4631EM-ASE

6MP IR Eyeball Network Camera





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 analysis (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

- · 1/2.9" 6Megapixel progressive scan STARVIS[™] CMOS
- · H.265&H.264 triple-stream encoding
- · 20fps@6MP(3072x2048), 25/30fps@4MP(2688x1520)
- \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 optional)
- \cdot Built-in Mic
- \cdot Max. IR LEDs Length 50m
- Micro SD memory, IP67, PoE



detection by recognizing a dramatic scene change and generating a 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. An optional heater module extends the multi-sensor camera's temperature range to -40° C to +60° C (-40° F to +140° F), allowing the camera to operate in the harshest environments.

Protection (IP67, wide voltage)

The camera allows for $\pm 30\%$ 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.



Technical Specification

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Camera					
Image Sensor		1/2.9" 6Megapixel progressive scan CMOS			
Effective Pixels		3072(H) x 2048(V)			
RAM/ROM		512MB/32MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s			
Minimum Illumination		0.04Lux/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 optional)			
Max. Aperture		F1.6(F1.6)			
Angle of View		H: 98° (69°), V: 67° (48°)			
Optical Zoom		N/A			
Focus Control		Fixed			
Close Focus Distance		0.9m (1.7m)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	69m(226ft)	28m(92ft)	14m(46ft)	7m(23ft)
	3.6 mm	89m(292ft)	36m(118ft)	18m(59ft)	9m(30ft)
Pan/Tilt/Ro	tation				
Pan/Tilt/Rotati	ion Range	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°			
Intelligence					
IVS		Tripwire, Int	rusion, Objec	t Abandoned/	/Missing
	ligent Functions	Tripwire, Intrusion, Object Abandoned/Missing Face Detection			
Video					
		11.205 - /11.20			
Compression	- 1- 11	H.265+/H.265/H.264+/H.264			
Streaming Capability		3 Streams			
Resolution		(3072×2048)/(3072×1728)/(2592×1944)/ (268×1520)/(2560×1440)/ (2304×1296)/1080P(1920×1080)/ SXGA(1280×1024)/1.3M(1280× 960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)			
Frame Rate		Main Stream: 6MP (1~20fps), 4MP(1~25/30fps)			
		Sub Stream: D1(1~25/30fps)			
		Third Stream: 1080P(1~25/30fps)			
Bit Rate Contro	bl	CBR/VBR			
Bit Rate		H.264: 24K ~ 10240Kbps H.265: 14K ~ 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	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
	10 00010/20 00010
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
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Edge Storage Web Viewer	NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari
Edge Storage Web Viewer Management Software	NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip
Edge Storage Web Viewer Management Software Smart Phone	NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip
Edge Storage Web Viewer Management Software Smart Phone Certifications	NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications	NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface	NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Video Interface	NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Video Interface Audio Interface	NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B N/A Built-in Mic
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Nideo Interface Audio Interface RS485	NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B N/A Built-in Mic
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Video Interface Audio Interface RS485	NAS Local PC for instant recording Mirco SD card 128GB IE, Chrome, Firefox, Safari Smart PSS, DSS, Easy4ip IOS, Android CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B N/A Built-in Mic

Eco Savvy 3.0 | DH-IPC-HDW4631EM-ASE

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	Φ106mm×93.7mm (4.17"×3.69")
Net Weight	0.47Kg (1.04lb)
Gross Weight	0.65Kg (1.43lb)

Ordering Information

Туре	Part Number	Description
6MP camera	DH-IPC- HDW4631EMP-ASE- 0360B	6MP IR Eyeball Network Camera, PAL
	DH-IPC- HDW4631EMN-ASE- 0360B	6MP IR Eyeball Network Camera, NTSC
	IPC-HDW4631EMP- ASE-0360B	6MP IR Eyeball Network Camera, PAL
	IPC-HDW4631EMN- ASE-0360B	6MP IR Eyeball Network Camera,NTSC
	DH-IPC- HDW4631EMP-ASE- 0280B	6MP IR Eyeball Network Camera, PAL
	DH-IPC- HDW4631EMN-ASE- 0280B	6MP IR Eyeball Network Camera, NTSC
	IPC-HDW4631EMP- ASE-0280B	6MP IR Eyeball Network Camera, PAL
	IPC-HDW4631EMN- ASE-0280B	6MP IR Eyeball Network Camera, NTSC
Accessories (optional)	PFB204W	Wall mount
	PFA139	Junction box
	PFA152-E	Pole Mount
	LR1002	ePoE Over Coax Converter

Accessories

Optional:





PFB204W

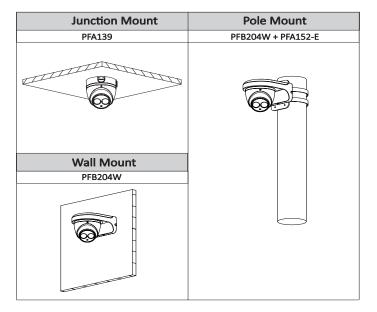
Wall Mount



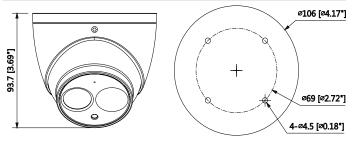


PFA139 Junction Box

PFA152-E LR1002 Pole Mount ePoE Over Coax Converter



Dimensions (mm/inch)





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