

# 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)
- · 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)
- · Built-in Mic
- · 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, 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.



Technical Specification							White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Camera						Gain Control	Auto/Manual		
Image Sensor		1/2.9" 6Megapixel progressive scan CMOS					Noise Reduction	3D DNR	
Effective Pixels		3072(H) x 2048(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		
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s					(EIS)		
Minimum Illumination		0.04Lux/F1.6( Color,1/3s,30IRE) 0.4Lux/F1.6( Color,1/30s,30IRE) 0Lux/F1.6(IR on)					Smart IR	Support	
S/N Ratio		More than 50dB					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							
Focal Length		2.8mm (3.6mm optional)					Compression	G.711a/ G.711Mu/ AAC/ G.726	
Max. Aperture		F1.6(F1.6)					Network		
Angle of View		H: 98° (69°), V: 67° (48°)					Ethernet	RJ-45 (10/100Base-T)	
Optical Zoom	Optical Zoom		N/A				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	
Focus Control Close Focus Dis	Focus Control  Close Focus Distance		Fixed 0.9m (1.7m)						
	Lens	Detect	Observe	Recognize	Identify		Interoperability	ONVIF, PSIA, CGI	
DORI Distance	2.8 mm	69m(226ft)	28m(92ft)	14m(46ft)	7m(23ft)		Streaming Method	Unicast / Multicast	
	3.6 mm	89m(292ft)	36m(118ft)	18m(59ft)	9m(30ft)		Max. User Access	10 Users /20 Users	
Pan/Tilt/Rotation		Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°					Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB	
, ,		. a.i 300 ; file. 6 70 ; Notation. 0 300					Web Viewer	IE, Chrome, Firefox, Safari	
Intelligence									
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Management Software	Smart PSS, DSS, Easy4ip	
	ligent Functions	Face Detection					Smart Phone	IOS, Android	
Video							Certifications		
Compression Streaming Capa	ability	H.265+/H.265/H.264+/H.264 3 Streams					Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B	
			)/(3072×1728 )/(2560×1440		1)/		Interface	·	
Resolution		(2304×1296	)/1080P(1920 :1024)/1.3M(1	)×1080)/			Video Interface	N/A	
		960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)					Audio Interface	Built-in Mic	
Frame Rate		Main Stream: 6MP (1~20fps), 4MP(1~25/30fps)					RS485	N/A	
		Sub Stream: D1(1~25/30fps)					Alarm	N/A	
		Third Stream: 1080P(1~25/30fps)							
Bit Rate Control		CBR/VBR					Electrical		
Bit Rate		H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps					Power Supply	DC12V, PoE (802.3af)(Class 0)	
Day/Night		Auto(ICR) / Color / B/W					Power Consumption	<6W	
BLC Mode		BLC / HLC / WDR(120dB)							

# Eco Savvy 3.0 | DH-IPC-HDW4631EM-ASE

# Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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	0.47Kg (1.04lb)
Gross Weight	0.65Kg (1.43lb)

Ordering Information					
Туре	Part Number	Description			
	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			
6MP camera	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			
	PFB204W	Wall mount			
Accessories	PFA130-E	Junction box			
(optional)	PFA152-E	Pole Mount			
	LR1002	ePoE Over Coax Converter			

# **Accessories**

# Optional:









PFA130-E Junction Box

PFB204W Wall Mount

LR1002 Pole Mount ePoE Over Coax Converter

Junction Mount	Pole Mount
PFA130-E	PFB204W + PFA152-E
Wall Mount	
PFB204W	



