

# DH-IPC-HDBW4239R-ASE

2MP WDR Full-color Starlight Dome 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, full-color 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**

# Full-color Starlight

With the adoption of high performance sensor and large-sized aperture lens, the camera is able to provide a more colorful image even under lowlight environment. Full-color starlight cameras are prefect for applications of low-light conditions which is over 1 lux, such as parking lots, urban streets, schools, museums, etc.

\*Full-color starlight cameras can not work in total darkness environment.

#### 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

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.

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 3.6mm fixed lens (6mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Micro SD memory, IP67, IK10, PoE













#### 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 warning message to inspect the camera.

#### Protection(IP67, IK10, 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) and impact tests (IK10), 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.





# Eco Savvy 3.0 | DH-IPC-HDBW4239R-ASE

Technical Specification						Day/Night	Auto(ICR) / Color / B/W	
Camera						BLC Mode	BLC / HLC / WDR(120dB)	
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Effective Pixels		1920(H) x 1080(V)				Gain Control	Auto/Manual	
RAM/ROM		256MB/32MB				Noise Reduction	3D DNR	
Scanning System		Progressive				Motion Detetion	Off / On (4 Zone, Rectangle)	
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)	
Minimum Illumination		0.001ux/F1.0 ( Color,1/3s,30IRE) 0.006Lux/F1.0 ( Color,1/30s,30IRE)				Electronic Image Stabilization	N/A	
S/N Ratio		More than 50dB				(EIS) Smart IR	Support	
IR LEDs		N/A						
Lens						Defog	N/A	
Lens Type		Fixed				Digital Zoom	16x	
Mount Type		Board-in				Flip	0°/90°/180°/270°	
Focal Length		3.6mm (6mm optional)				Mirror	Off/On	
Max. Aperture						Privacy Masking	Off / On (4 Area, Rectangle)	
Angle of View		F1.0(F1.0) H: 87°/54°, V:47°/20°				Audio		
Optical Zoom		N/A				Compression	G.711a/ G.711Mu/ AAC/ G.726	
Focus Control		Fixed				Network		
Close Focus Dis	tance	1.6m(5.3ft)/3.5m (11.5ft)					DL 45 (40 (400 D. T.)	
	Lens	Detect	Observe	Recognize	Identify	Ethernet	RJ-45 (10/100Base-T)	
DORI Distance	3.6 mm	53m(174ft) 83m(289ft)	21m(69ft) 33m(108ft)	11m(36ft)	5m(16ft) 8m(26ft)	Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;PPPOE;IE EE802.1X;SMTP;SNMP;FTP;DHCP;DNS;DDNS;PPPOE; IPV4/V6;QoS;UPnP;NTP;Bonjour;IEEE 802.1X;Multic ast;ICMP;IGMP;TLS;SSH;NFS	
Dan/Tilt/Pot		03(203.)	33(133.1)	27111(3311)	J(2314)	Interoperability	ONVIF Profile S&G, API	
Pan/Tilt/Rotation Pan/Tilt/Rotation Range		Day O'maco' Tile O'maco' Datation O'maco'				Streaming Method	Unicast / Multicast	
		Pan:0°~360°; Tilt:0°~80°; Rotation:0°~360°				Max. User Access	10 Users /20 Users	
Intelligence  Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB	
IVS		Tripwire, Intr	usion, Object /	Abandoned/N	∕lissing	Web Viewer	IE, Chrome, Firefox, Safari	
Advanced Intel	ligent Functions	Tripwire, Intrusion, Object Abandoned/Missing Face Detection				Management Software	Smart PSS, DSS, DMSS	
Video		Table 5 cleans.				Smart Phone	IOS, Android	
Compression		H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)				Certifications	Certifications	
Smart Codec		Support H.265+/H.264+				Certifications	CE (EN 60950:2000) UL:UL60950-1	
Streaming Capability		3 Streams					FCC: FCC Part 15 Subpart B	
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/				Interface Video Interface	N/A	
		VGA(640×480)/CIF(352×288/352×240)				Audio Interface	1/1 channel In/Out	
Frame Rate		Main Stream: 1080P(1~50/60fps)				RS485	N/A	
		Sub Stream: D1(1~50/60fps)				Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	
Bit Rate Control		Third Stream: 1080P(1~25/30fps)				Electrical	T GRANIEL OUT, SOUTHA 124DC	
Bit Rate		CBR/VBR H.264: 24K ~ 10240Kbps				Power Supply	DC12V, PoE(802.3af)(Class 0)	
DIT VALE		H.265: 14K ~ 9984Kbps				Power Consumption	<3.7W	



#### Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

#### Construction

Casing	Metal
Dimensions	Ф122mm×88.9mm (4.8"×3.5")
Net Weight	0.44kg (0.97lb)
Gross Weight	0.58kg (1.29lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HDBW4239RP-ASE	2MP Full-color Starlight Dome Network Camera,WDR, PAL				
2040	DH-IPC- HDBW4239RN-ASE	2MP Full-color Starlight Dome Network Camera WDR,NTSC				
2MP camera	IPC-HDBW4239RP- ASE	2MP Full-color Starlight Dome Network Camera,WDR, PAL				
	IPC-HDBW4239RN- ASE	2MP Full-color Starlight Dome Network Camera WDR,NTSC				
	PFB203W	Wall mount				
	PFA137	Junction box				
Accessories (optional)	PFB200C	In-ceiling mount				
	PFA152-E	Pole Mount				
	LR1002	ePoE Over Coax Converter				

## **Accessories**

## Optional:









PFA152-E Pole Mount

PFB203W Wall Mount

PFA137 Junction Box

PFB200C In-ceiling Mount



LR1002 ePoE Over Coax Converter

Junction Mount	Inceiling Mount	
PFA137	PFB200C	
Wall Mount	Pole Mount	
PFB203W	PFB203W + PFA152	

# Dimensions (mm/inch)





