

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
- · 25/30fps@1080(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(Electronic), 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.



DORI Distance 3.6 mm 53m(174ft) 21m(69ft) 11m(36ft) 5m(16ft) 8m(26ft) Interoperability New Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions 3.6 mm 53m(174ft) 21m(69ft) 11m(36ft) 5m(16ft) 5m(26ft) Interoperability 5max User Access 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Smart Phone Video								
Trage Sensor	Technical Specification						Day/Night	Color(default) /Auto(Electronic) / B/W
Effective Pixels 1920(ii) x 1980(iy) 2980(ij) x 1980(iy) 2980(ij) x 1980(iy) 2980(ij) x 1980(iy) 2980(ij) x 1980(ij) x	Camera						BLC Mode	BLC / HLC / WDR(120dB)
RAM/ROM	Image Sensor		1/2.8" 2Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Noise Reduction 30 DNR South 30 DNR South 30 DNR Motion Detection 30 DNR Motion Detection 30 DNR Motion Detection 30 DNR Motion Detection 0ff / On 4 Zone, Rectangle Motion Detection 0ff / On 4 Zone Motion Detection N/A Color. 1/3 o., 30 IRF Electronic Image Stabilization N/A South N/A	Effective Pixels		1920(H) x 1080(V)				Gain Control	Auto/Manual
Motion Detetion	RAM/ROM						Noise Reduction	3D DNR
Region of Interest	Scanning System						Motion Detetion	Off / On (4 Zone, Rectangle)
Minimum illumination	Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					
S/N Ratio	Minimum Illumination		· · · · · · · · · · · · · · · · · · ·				Electronic Image Stabilization	
Lens S	S/N Ratio		More than 50dB					N/A
Lens Type	IR LEDs		N/A				Defog	N/A
Fixed Fixed Fixed Filip 0'/90'/180'/270* Mirror Off / On	Lens							16x
Mount Type Board-in Mirror Off / On Focal Length 3.6mm (6mm optional) Privacy Masking Off / On (4 Area, Rectangle) Max. Aperture F1.0(F1.0) Audio Angle of View H: 87'/54', V:47'/20" Compression G.711a/ G.711Mu/ AAC/ G.726 Optical Zoom N/A Network Focus Control Fixed Network Close Focus Distance 1.6m(5.3ft)/3.5m (11.5ft) Ethernet RJ-45 (10/100Base-T) DORI DORI 3.6 mm S3m(174ft) 21m(69ft) 11m(36ft) Sm(16ft) DORI 0.6 mm 83m(289ft) 33m(108ft) 17m(56ft) 8m(26ft) Pan/Tilt/Rotation Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan0'~360'; Tilt:0'~80'; Rotation:0'~360' Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, illegal Access, Storage anomaly Access, Storage anomaly Video Video Smart PSS, DSS, DMSS DMSS Smart Phone IoS, Android Video Smart PSS, DSS, DMSS Smart Phone Off / On (4 Area, Rectangle) Privacy Masking Off / On (4 Area, Rectangle) Privacy Masking Off / On (4 Area, Rectangle) Privacy Masking Off / On (4 Area, Rectangle) Paudio Privacy Masking Off / On (4 Area, Rectangle) Paudio Privacy Masking Off / On (4 Area, Rectangle) Paudio Privacy Masking Off / On (4 Area, Rectangle) Paudio Privacy Masking Off / On (4 Area, Rectangle) Paudio Pundio Compression G.711a/ G.711Mu/ AAC/ G.726	Lens Type		Fixed					
Privacy Masking Privacy Masking Off / On (4 Area, Rectangle)	Mount Type		Board-in					
Max. Aperture F1.0(F1.0) Angle of View H: 87'/54', V-47'/20' Optical Zoom N/A Focus Control Fixed Network Close Focus Distance 1.6m(5.3ft)/3.5m (11.5ft) Ethernet R1.5 (10/100Base-T) Ethernet R1.5 (10/100Base-T) Ethernet R1.5 (10/100Base-T) Fixed Network Close Focus Distance 1.6m(5.3ft)/3.5m (11.5ft) Ethernet R1.5 (10/100Base-T) Fixed Network Ethernet R1.5 (10/100Base-T) Fixed Network Fixed Network Fixed Network Fixed Network Fixed Network Ethernet R1.5 (10/100Base-T) Fixed R1.5 (10/100Base-T) Fixed R1.5 (10/100Base-T) Fixed Network R1.5 (10/100Base-T) Fixed R1	Focal Length		3.6mm (6mm	n optional)				
Audio Applical Zoom N/A Focus Control Fixed Network Close Focus Distance 1.6m(5.3ft)/3.5m (11.5ft) Ethernet RJ-45 (10/100Base-T) DORI Distance 3.6 mm 53m(174ft) 21m(69ft) 11m(36ft) 5m(16ft)			F1.0(F1.0)				Privacy Masking	Off / On (4 Area, Rectangle)
Compression G.711a/G.711Mu/AAC/G.726				47°/20°			Audio	
Close Focus Distance Lens Detect Observe Recognize DORI Distance 3.6 mm 53m(174ft) 21m(69ft) 11m(36ft) 5m(16ft) 6.0 mm 83m(289ft) 77m(56ft) Pan/Tilt/Rotation Pan: Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection Tide Lens Detect Observe Recognize Identify Protocol HTTP;HTTP5;TCP;ARP;RTSP;RTCP;UDP;PPPOE;IE Ethernet RJ-45 (10/100Base-T) HTTP;HTTP5;TCP;ARP;RTSP;RTCP;UDP;PPPOE;IE EE802.1X;SMMP;FD;DNCP;DNS;DNS;PPPOE;IPV4/V6;QoS;UPP;NTP;Bonjour;IEEE 802.1X;Multicast;Interoperability ONVIF Profile S&G, API Streaming Method Unicast / Multicast Max. User Access 10 Users /20 Users Local PC for instant recording Mirco SD card 128GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Advanced Intelligent Functions Video	-						Compression	G.711a/ G.711Mu/ AAC/ G.726
Lens Detect Observe Recognize Identify DORI Distance 3.6 mm 53m(174ft) 21m(69ft) 11m(36ft) 5m(16ft) 6.0 mm 83m(289ft) 33m(108ft) 17m(56ft) 8m(26ft) Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan:0~360°; Tilt:0~80°; Rotation:0~360° Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Lens Detect Observe Recognize Identify HTTP;HTTP;TCP;ARP;RTSP;RTP;RTCP;UDP;PPPOE;IE E802.1X;Multic ast;ICMP;ISMMP;TTP;DhICP;DNS;DDNS;PPPoE;IE E802.1X;Multic ast;ICMP;ISMMP;TTP;DHICP;DNS;DNS;DNS;PPPoE;IE E802.1X;Multic ast;ICMP;ISMMP;TTP;DHICP;DNS;DDNS;PPPoE;IE E802.1X;Multic ast;ICMP;ISMMP;TTP;DHICP;DNS;DDNS;PPPoE;IE E802.1X;Multic ast;ICMP;ISMMP;TTP;DHICP;DNS;DDNS;PPPoE;IE E802.1X;Multic ast;ICMP;ISMMP;TTP;DHICP;DNS;DNS;ICMP;ISMP;TTP;DNS;DNS;DNS;DNS;DNS;DNS;DNS;DNS;DNS;DNS	Focus Control		Fixed				Network	
DORI Distance 3.6 mm 53m(174ft) 21m(69ft) 11m(36ft) 5m(16ft) 6.0 mm 83m(289ft) 33m(108ft) Protocol 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 Interoperability ONVIF Profile S&G, API Streaming Method Unicast / Multicast 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 IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection Video Smart Phone Protocol 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 Interoperability ONVIF Profile S&G, API Streaming Method Unicast / Multicast Max. User Access 10 Users /20 Users Edge Storage Local PC for instant recording Mirco SD card 128GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Smart Phone Video	Close Focus Dis	tance	1.6m(5.3ft)/3.5m (11.5ft)				Ethernet	RJ-45 (10/100Base-T)
Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan:0*~360*; Tilt:0*~80*; Rotation:0*~360* Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection 17m(56ft) 8m(26ft) 1nteroperability Streaming Method Unicast / Multicast Max. User Access 10 Users /20 Users Intelligence Max. User Access 10 Users /20 Users Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Smart Phone Video Video							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
Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan:0°~360°; Tilt:0°~80°; Rotation:0°~360° Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, i P address conflict, Illegal Access, Storage anomaly IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection Streaming Method Unicast / Multicast Max. User Access 10 Users /20 Users Edge Storage Local PC for instant recording Mirco SD card 128GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Video		6.0 mm	83m(289ft)	33m(108ft)	17m(56ft)	8m(26ft)	Interoperability	
Pan/Tilt/Rotation Range Pan:0°~360°; Tilt:0°~80°; Rotation:0°~360° Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection Max. User Access 10 Users /20 Users NAS Local PC for instant recording Mirco SD card 128GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Video	Pan/Tilt/Rot	ation						
Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection Was Edge Storage Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Smart Phone IOS, Android	Pan/Tilt/Rotation Range		Pan:0°~360°; Tilt:0°~80°; Rotation:0°~360°				-	·
Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access,Storage anomaly Web Viewer IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection Face Detection Wob Viewer Management Software Smart PSS, DSS, DMSS Smart Phone Video	Intelligence						Max. User Access	
Web Viewer IE, Chrome, Firefox, Safari IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Smart Phone IOS, Android	_						Edge Storage	Local PC for instant recording
Advanced Intelligent Functions Face Detection Smart Phone IOS, Android Video				-			Web Viewer	IE, Chrome, Firefox, Safari
Smart Phone IOS, Android Video			Tripwire, Intr	usion, Object <i>i</i>	Abandoned/N	lissing	Management Software	Smart PSS, DSS, DMSS
Video	Advanced Intell	igent Functions	Face Detection	on			Smart Phone	IOS, Android
Certifications	Video						Certifications	
Compression H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream) CE (EN 60950:2000) Certifications UL:UL60950-1	Compression Smart Codec				4H/MJPEG(Su	b Stream)	Certifications	· ·
FCC: FCC Part 15 Subpart B			Support H.265+/H.264+					FCC: FCC Part 15 Subpart B
interface	Streaming Capability		3 Streams				Interface	
Resolution 720P(1280×720)/D1(704×576/704×480)/ Video Interface N/A Video Interface N/A	Resolution							
Audio Interface 1/1 channel In/Out Main Stream: 1080P(1~25/30fps)	Frame Rate Rit Rate Control		Main Stream: 1080P(1~25/30fps)					
Frame Rate Sub Stream: D1(1~25/30fps) RS485 N/A 1 channel In: 5mA 5VDC 1 channel In: 5mA 5VDC			Sub Stream: D1(1~25/30fps)				RS485	
Alarm 1 channel Out: 300mA 12VDC Third Stream: 1080P(1~25/30fps)							Alarm	
Bit Rate Control CBR/VBR							Electrical	
Power Supply DC12V, PoE(802.3af)(Class 0)				10240Kbps			Power Supply	DC12V, PoE(802.3af)(Class 0)
Bit Rate H.265: 14K ~ 9984Kbps Power Consumption <3.7W	Bit Rate						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 $^{\sim}$ +60° C (-22° F $^{\sim}$ +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 I	Ordering Information					
Туре	Part Number	Description				
	DH-IPC- HDBW4239RP-ASE	2MP Full-color Starlight Dome Network Camera,WDR, PAL				
2MD camera	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)



