

DH-IPC-HDBW4231F-E2-M/M12

2x2MP IR Mini Dome 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 (less than 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.

Environmental

With a temperature range of-30 °C to +60 °C (-22 °F to +140 °F), the

- Two 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 dual-stream encoding
- · 25/30fps@2M(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS)
 DMSS
- · 2.8mm fixed lens (3.6mm optional)
- · Max. IR LEDs Length 20m
- · Micro SD memory, IP67, IK10, PoE















camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For enviorments 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 4KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity , optimize settings specific contents include : Improve compression efficiency , improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay , reduce complexity , etc



Technical Specification							Bit Rate Control	CBR/VBR
Camera							Bit Rate	H.264: 32~10240Kbps
Image Sensor		Two 1/2.8" 2Megapixel progressive scan CMOS						H.265: 12~7168Kbps
Effective Pixels		1920(H)x1080(V)					Day/Night	Auto(ICR) / Color / B/W
RAM/ROM		512MB/256MB					BLC Mode	BLC / HLC / WDR(120dB, only fot CH1)
Scanning System		Progressive					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s					Gain Control	Auto/Manual
		0.009Lux/F2.0(Color,1/3s,30IRE)					Noise Reduction	3D DNR
Minimum Illumination		0.07Lux/2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)					Motion Detection	Off / On (4 Zone, Rectangle)
S/N Ratio		More than 50dB					Region of Interest	Off / On (4 Zone)
IR Distance		Distance up to 20m (66ft)					Electronic Image Stabilization (EIS)	N/A
IR On/Off Control		Auto/ Manual					Smart IR	Support
IR LEDs		10 x 2						N/A
Lens							Defog	
Lens Type		Fixed					Digital Zoom	16x
Mount Type		Board-in					Flip	0°/90°/180°/270°
Focal Length		2.8mm (3.6mm optional)					Mirror	Off / On
Max. Aperture		F2.0 (F2.1)					Privacy Masking	Off / On (4 Area, Rectangle)
Angle of View		H: 110° (86°), V:60° (46°)					Audio	
Optical Zoom		N/A					Compression	G.711a/ G.711Mu/ AAC/ G.726
Focus Control		Fixed	Fixed				Network	
Close Focus Dis	tance	N/A					Ethernet	-M Model: RJ-45 (10/100Base-T)
	Lens	Detect	Observe	Recognize	Identify			-M12 Model: M12 D-Coding (10/100Base-T) HTTP;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP;
DORI Distance	2.8 mm 3.6 mm	41m(134ft) 55m(180ft)	16m(52ft) 22m(72ft)	8m(26ft) 11m(36ft)	4m(13ft) 6m(20ft)		Protocol	FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UPnP; NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;TLS;
Pan/Tilt/Rotation							Interoperability	ONVIF Profile S&G, API
Pan/Tilt/Rotati		Pan:±90°; Tilt:0°~65°; Rotation:0°~360°					Streaming Method	Unicast / Multicast
Intelligence							Max. User Access	10 Users /20 Users
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, Intrusion, Object Abandoned/Missing					Web Viewer	IE, Chrome, Firefox, Safari
	ligent Functions	Face Detection					Management Software	Smart PSS, DSS, DMSS
Video	0						Smart Phone	IOS, Android
Compression		H.265/H.264H/MJPEG(Sub Stream)					Certifications	
Smart Codec		N/A					Certifications	CE (EN 60950:2000) UL:UL60950-1
Streaming Capability		2 Streams						FCC: FCC Part 15 Subpart B E-mark(ECE-Regulation No.10) EN50155
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)					Interface	
Frame Rate		Main Stream: CH1: 1080P (1~25/30fps) CH2: 1080P (1~25/30fps) Sub Stream: CH1: D1(1~25/30fps) CH2: D1(1~25/30fps)					Video Interface	N/A
							Audio Interface	Built-in Mic
							RS485	N/A
							Alarm	N/A

Electrical

Power Supply	-M Model: DC12V, PoE (802.3af)(Class 0) -M12 Model: PoE (802.3af)(Class 0)	
Power Consumption	< 6.5W	
Environmental		
Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH	
Stroage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH	
Ingress Protection	IP67	
Vandal Resistance	IK10	

Construction

Casing	Metal
Dimensions	Ф122mm×65.4mm (4.79"×2.57")
Net Weight	0.505kg (1.11lb)
Gross Weight	0.53kg (1.16lb)

Ordering Information Part Number Description Type DH-IPC-HDBW4231FP-2x2MP IR Mini Dome Network E2-M/M12-0280B Camera,WDR,PAL DH-IPC-HDBW4231FN-2x2MP IR Mini Dome Network E2-M/M12-0280B Camera,WDR,NTSC IPC-HDBW4231FP-2x2MP IR Mini Dome Network E2-M/M12-0280B Camera,WDR,PAL IPC-HDBW4231FN-2x2MP IR Mini Dome Network E2-M/M12-0280B Camera,WDR,NTSC 2MP camera DH-IPC-HDBW4231FP-2x2MP IR Mini Dome Network E2-M/M12-0360B Camera,WDR,PAL DH-IPC-HDBW4231FN-2x2MP IR Mini Dome Network E2-M/M12-0360B Camera,WDR,NTSC IPC-HDBW4231FP-2x2MP IR Mini Dome Network E2-M/M12-0360B Camera,WDR,PAL IPC-HDBW4231FN-2x2MP IR Mini Dome Network E2-M/M12-0360B Camera,WDR,NTSC PFB203W Wall mount Accessories PFA137 Junction box (optional) PFA152-E Pole mount

Accessories

Optional:





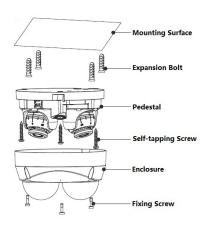


PFA137 Junction Box

PFB203W Wall mount

PFA152-E Pole mount

Installation:



Dimensions (mm/inch)

