

OR-IPC-HDBW4231F-M12

2MP 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 (0.009 lux).

Wide Dynamic Range

Embeded 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

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-steam encoding
- · 50/60fps@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, 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.

Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

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							White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Camera						Gain Control	Auto/Manual	
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS					Noise Reduction	3D DNR
Effective Pixels		1920(H)x1080(V)					Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		256MB/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)	N/A
Minimum Illumination		0.009Lux/F2.0(Color,1/3s,30IRE) 0.07Lux/2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)					Smart IR	Support
S/N Ratio		More than 50dB					Defog	N/A
IR Distance		Distance up to 20m (66ft)					Digital Zoom	16x
IR On/Off Control		Auto/ Manual					Flip	0°/90°/180°/270°
IR LEDs		10					Mirror	Off / On
Lens							Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Fixed					Audio	
		Board-in					Compression	G.711a/ G.711Mu/ AAC/ G.726
Mount Type							Network	
Focal Length May Aperture		2.8mm (3.6mm, 6mm optional)					Ethernet	RJ-45 (10/100Base-T)/M12 D-Coding
Max. Aperture		F2.0 (F2.0, F2.0)						HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP;
Angle of View Optical Zoom		H: 110° (87°, 51°), V:58° (48°, 30°) N/A					Protocol	FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;
Focus Control		Fixed						IGMP; SNMP
Close Focus Dis	stance	N/A					Interoperability	ONVIF, PSIA, CGI
	Lens	Detect	Observe	Recognize	Identify		Streaming Method	Unicast / Multicast
DODI D.	2.8 mm	44m(144ft)	17m(56ft)	9m(30ft)	4m(13ft)		Max. User Access	10 Users /20 Users
DORI Distance	3.6 mm 6.0 mm	55m(180ft) 81m(266ft)		11m(36ft) 16m(52ft)	6m(20ft) 8m(26ft)		Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotation		,	,				Web Viewer	IE, Chrome, Firefox, Safari
Pan/Tilt/Rotation Range		Pan:0°~60°; Tilt:0°~80°; Rotation:0°~360°					Management Software	Smart PSS, DSS, Easy4ip
		ranio 60 ; Tiltio 780 ; Kotationio 7360						
Intelligence	:						Smart Phone	IOS, Android
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Certifications	
Advanced Intelligent Functions Video		Face Detection					Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B E-mark(ECE-Regulation No.10)
Compression		H.265+/H.26	65/H.264+/H.	264				EN50155
Streaming Capability		3 Streams					Interface	
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)					Video Interface	N/A
							Audio Interface	Built-in Mic
Frame Rate		Main Stream: 1080P (1~50/60fps)					RS485	N/A
		Sub Stream: D1(1~50/60fps)					Alarm	N/A
		Third Stream: 1080P(1~25/30fps)					Electrical	
Bit Rate Control		CBR/VBR H.264: 24~9472Kbps					Power Supply	DC12V, PoE (802.3af)(Class 0)
Bit Rate		H.265: 14~5632Kbps					Power Consumption	<4.5W
Day/Night		Auto(ICR) / Color / B/W					i ower consumption	71.5 44
BLC Mode		BLC / HLC / WDR(120dB)						

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	Ф106mm×50.3mm (4.17"×1.98")
Net Weight	0.4kg (0.88lb)
Gross Weight	0.44kg (0.97lb)

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Ordering Information							
Туре	Part Number	Description					
	DH-IPC- HDBW4231FP-M/ M12-0360B	2MP IR Mini Dome Network Camera,WDR,PAL					
	DH-IPC- HDBW4231FN-M/ M12-0360B	2MP IR Mini Dome Network Camera,WDR,NTSC					
	IPC-HDBW4231FP-M/ M12-0360B	2MP IR Mini Dome Network Camera,WDR,PAL					
	IPC-HDBW4231FN-M/ M12-0360B	2MP IR Mini Dome Network Camera,WDR,NTSC					
	DH-IPC- HDBW4231FP-M/ M12-0280B	2MP IR Mini Dome Network Camera,WDR,PAL					
2MP	DH-IPC- HDBW4231FN-M/ M12-0280B	2MP IR Mini Dome Network Camera,WDR,NTSC					
camera	IPC-HDBW4231FP-M/ M12-0360B	2MP IR Mini Dome Network Camera,WDR,PAL					
	IPC-HDBW4231FN-M/ M12-0360B	2MP IR Mini Dome Network Camera,WDR,NTSC					
	DH-IPC- HDBW4231FP-M/ M12-0600B	2MP IR Mini Dome Network Camera,WDR,PAL					
	DH-IPC- HDBW4231FN-M/ M12-0600B	2MP IR Mini Dome Network Camera,WDR,NTSC					
	IPC-HDBW4231FP-M/ M12-0600B	2MP IR Mini Dome Network Camera,WDR,PAL					
	IPC-HDBW4231FN-M/ M12-0600B	2MP IR Mini Dome Network Camera,WDR,NTSC					
	PFB204W	Wall mount					
Accessories (optional)	PFA139	Junction box					
	PFA152	Pole mount					

Accessories

Optional:







PFA139 Junction Box

PFB204W Wall Mount

PFA152 Pole Mount

Junction box	Pole Mount
PFA139	PFB204W + PFA152
Wall Mount	
PFB204W	



