

DH-IPC-HDBW4231F-E2-M/M12

2x2MP IR Mini Dome Network Camera



System Overview

The multi-sensor camera provides added flexibility for capturing wide area video surveillance. With two 2MP adjustable lenses can provide a flexible choice of the angle, the camera can replace multiple single-sensor cameras providing a higher return on investment. The multi-sensor camera features contrast, backlight compensation, white balance, and resolution control to create a crystal-clear image even in the most challenging lighting conditions.

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

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 camera is designed for extreme temperature environments. The camera

- 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















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						Noise Reduction	3D DNR
Camera						Motion Detection	Off / On (4 Zone, Rectangle)
Image Sensor		Two 1/2.8" 2Megapixel progressive scan CMOS				Region of Interest	Off / On (4 Zone)
Effective Pixels		1920(H)x1080(V)				Electronic Image Stabilization (EIS)	N/A
		512MB/256MB				Smart IR	Support
RAM/ROM		Progressive				Defog	N/A
Scanning System		Auto/Manual, 1/3(4)~1/100000s				Digital Zoom	16x
Electronic Shutter Speed		0.009Lux/F2.0(Color,1/3s,30IRE)				Flip	0°/90°/180°/270°
Minimum Illumination		0.07Lux/2.0	(Color,1/30s			Mirror	Off / On
		OLux/F2.0(IR on)				Privacy Masking	Off / On (4 Area, Rectangle)
S/N Ratio		More than 50dB				Audio	
IR Distance		Distance up to 20m (66ft)				Compression	G.711a/ G.711Mu/ AAC/ G.726
IR On/Off Control		Auto/ Manual				Network	
IR LEDs		10 x 2				-M Model: RJ-45 (10/100Base-T)	
Lens						Ethernet	-M12 Model: M12 D-Coding (10/100Base-T)
Lens Type		Fixed					HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;
Mount Type		Board-in				Protocol	FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
Focal Length			mm optional)			Interoperability	ONVIF Profile S&G, API
Max. Aperture		F2.0 (F2.1)	\ \\.CO\ (4C\)				
Angle of View		H: 110° (86°), V:60° (46°)				Streaming Method	Unicast / Multicast
Optical Zoom		N/A				Max. User Access	10 Users /20 Users
Focus Control		Fixed					NAS Local PC for instant recording Mirco SD card 128GB
Close Focus Distance		N/A				Edge Storage	
DORI Distance	Lens 2.8 mm	Detect 41m(134ft)	Observe 16m(52ft)	Recognize 8m(26ft)	Identify 4m(13ft)		
DOM Distance	3.6 mm	55m(180ft)	, ,	11m(36ft)	6m(20ft)	Web Viewer	IE, Chrome, Firefox, Safari
Pan/Tilt/Ro	tation	,	, ,	, ,	, ,	Management Software	Smart PSS, DSS, DMSS
Pan/Tilt/Rotati		Dani LOO°, Ti	l+.0°~CE°. Da+	ation.0°~2C0°		Smart Phone	IOS, Android
	· ·	Pall:±90; II	II:U 65; KUL	ation:0°~360°		Certifications	
Intelligence							CE (EN 60950:2000)
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal access, Storage anomaly				Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B E-mark(ECE-Regulation No.10)
IVS		Tripwire, Int	rusion, Objec	t Abandoned,	/Missing		EN50155
Advanced Intelligent Functions		Face Detection				Interface	
Video						Video Interface	N/A
Compression		H.265/H.264	4H/MJPEG(Su	ıb Stream)		Audio Interface	Built-in Mic
Smart Codec		N/A				RS485	N/A
Streaming Capability		2 Streams				Alarm	N/A
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				Electrica	
Frame Rate		Main Stream: CH1: 1080P (1~25/30fps) CH2: 1080P (1~25/30fps)				Power Suppl	-M Model: DC12V, PoE (802.3af)(Class 0) -M12 Model: PoE (802.3af)(Class 0)
		Sub Stream: CH1: D1(1~25/30fps) CH2: D1(1~25/30fps)				Power Consumption	DC 12V: 4.32W 6.02W(IR on) PoE: 4.32W 6.02W(IR on)
Bit Rate Control		CBR/VBR				Environmental	
Bit Rate		H.264: 32~10240Kbps H.265: 12~7168Kbps				Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RF
Day/Night		Auto(ICR) / 0				Stroage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RF
BLC Mode			WDR (120dB))		Ingress Protection	IP67
White Balance				p/Outdoor/M	anual		
Gain Control		Auto/Manual				Vandal Resistance	IK10

Construction

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

Ordering Information							
Туре	Part Number	Description					
	DH-IPC-HDBW4231FP-E2- M-0280B	2x2MP IR Mini Dome Network Camera, PAL					
	DH-IPC-HDBW4231FN-E2- M-0280B	2x2MP IR Mini Dome Network Camera, NTSC					
	IPC-HDBW4231FP-E2-M- 0280B	2x2MP IR Mini Dome Network Camera, PAL					
	IPC-HDBW4231FN-E2-M- 0280B	2x2MP IR Mini Dome Network Camera, NTSC					
	DH-IPC-HDBW4231FP-E2- M-0360B	2x2MP IR Mini Dome Network Camera, PAL					
	DH-IPC-HDBW4231FN-E2- M-0360B	2x2MP IR Mini Dome Network Camera, NTSC					
	IPC-HDBW4231FP-E2-M- 0360B	2x2MP IR Mini Dome Network Camera, PAL					
2MP	IPC-HDBW4231FN-E2-M- 0360B	2x2MP IR Mini Dome Network Camera, NTSC					
camera	DH-IPC-HDBW4231FP-E2- M12-0280B	2x2MP IR Mini Dome Network Camera, PAL					
	DH-IPC-HDBW4231FN-E2- M12-0280B	2x2MP IR Mini Dome Network Camera, NTSC					
	IPC-HDBW4231FP-E2- M12-0280B	2x2MP IR Mini Dome Network Camera, PAL					
	IPC-HDBW4231FN-E2- M12-0280B	2x2MP IR Mini Dome Network Camera, NTSC					
	DH-IPC-HDBW4231FP-E2- M12-0360B	2x2MP IR Mini Dome Network Camera, PAL					
	DH-IPC-HDBW4231FN-E2- M12-0360B	2x2MP IR Mini Dome Network Camera, NTSC					
	IPC-HDBW4231FP-E2- M12-0360B	2x2MP IR Mini Dome Network Camera, PAL					
	IPC-HDBW4231FN-E2- M12-0360B	2x2MP IR Mini Dome Network Camera, NTSC					
	PFB203W	Wall Mount					
	PFA137	Junction Mount					
Accessories (optional)	PFA106	Ceiling Mount					
	PFB220C	Ceiling Mount					
	PFA152-E	Pole Mount					

Accessories

Optional:







PFA137

PFB203W

PFA2152-E





PFA106

Junction Mount	Wall Mount		
PFA137	PFA137	PFB203W	
Pole Mount	Ceiling Mount		
PFA152-E+PFB203W	PFA106+PFB220C		

Dimensions (mm/inch)





