

DH-IPC-HDBW4431F-M/M12

4MP 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

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 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 environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

- · 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 dual-stream encoding
- · 25/30fps@4M(2688×1520)
- · 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













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		1/3" 4Megapixel progressive scan CMOS					Noise Reduction	3D DNR
Effective Pixels		2688(H)x1520(V)					Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		512MB/32MB					Region of Interest	Off / On (4 Zone)
Scanning System		Progressive					Electronic Image Stabilization	
Electronic Shutter Speed		Electronic Shutter Speed					(EIS)	N/A
Minimum Illumination		0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)					Smart IR Defog	Support N/A
S/N Ratio		More than 50dB					-	16x
IR Distance		Distance up to 20m (66ft)					Digital Zoom	
IR On/Off Cont							Flip	0°/90°/180°/270°
IR LEDs	101	Auto/ Manual 10					Mirror	Off / On
							Privacy Masking	Off / On (4 Area, Rectangle)
Lens							Audio	
Lens Type		Fixed					Compression	G.711a/ G.711Mu/ AAC/ G.726
Mount Type		Board-in					Network	
Focal Length		2.8mm (3.6mm, 6mm optional)					Ethernet	RJ-45 (10/100Base-T)/M12 D-Coding
Max. Aperture Angle of View		F2.0 (F2.0, F2.0) H: 104° (87°, 55°), V:57° (48°, 31°)					Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;
Optical Zoom		N/A						IGMP; SNMP
Focus Control Close Focus Distance		Fixed					Interoperability	ONVIF, PSIA, CGI
Close I ocus Dis	Lens	N/A Detect Observe Recognize Identify					Streaming Method	Unicast / Multicast
	2.8 mm	63m(207ft)	25m(82ft)	13m(43ft)	6m(20ft)		Max. User Access	10 Users /20 Users
DORI Distance	3.6 mm 6.0 mm	80m(262ft) 117m(384ft)	32m(105ft) 47m(154ft)	16m(52ft) 23m(75ft)	8m(26ft) 12m(39ft)		Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Ro	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
Intelligence	!						Smart Phone	IOS, Android
IVS		Tripwire, Intrusion, Object Abandoned/Missing						ios, Ailui diu
Advanced Intel	ligent Functions	Face Detection					Certifications	
Video							Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B E-mark(ECE-Regulation No.10)
Compression		H.265+/H.265/H.264+/H.264						EN50155(Optional)
Streaming Capability Resolution		3 Streams 4M(2688×1520)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)					Interface	
							Video Interface	N/A
Frame Rate		Main Stream: 4M(1~25/30fps)					Audio Interface	Built-in Mic
		Sub Stream: D1(1~25/30fps)					RS485	N/A
		Third Stream: 720P(1~25/30fps)					Alarm	N/A
Bit Rate Control		CBR/VBR H.264: 24~10240Kbps					Electrical	
Bit Rate		H.265: 14~9984Kbps					Power Supply	DC12V, PoE (802.3af)(Class 0)
Day/Night		Auto(ICR) / Color / B/W					Power Consumption	<4.5W
BLC Mode		BLC / HLC / WDR(120dB)						

Eco Savvy 3.0 DH-IPC-HDBW4431F-M/M12

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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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)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HDBW4431FP-M/ M12-0360B	4MP IR Mini Dome Network Camera,WDR,PAL				
	DH-IPC- HDBW4431FN-M/ M12-0360B	4MP IR Mini Dome Network Camera,WDR,NTSC				
	IPC- HDBW4431FP-M/ M12-0360B	4MP IR Mini Dome Network Camera,WDR,PAL				
	IPC- HDBW4431FN-M/ M12-0360B	4MP IR Mini Dome Network Camera,WDR,NTSC				
	DH-IPC- HDBW4431FP-M/ M12-0280B	4MP IR Mini Dome Network Camera,WDR,PAL				
4MP camera	DH-IPC- HDBW4431FN-M/ M12-0280B	4MP IR Mini Dome Network Camera,WDR,NTSC				
4IVIP Camera	IPC- HDBW4431FP-M/ M12-0280B	4MP IR Mini Dome Network Camera,WDR,PAL				
	IPC- HDBW4431FN-M/ M12-0280B	4MP IR Mini Dome Network Camera,WDR,NTSC				
	DH-IPC- HDBW4431FP-M/ M12-0600B	4MP IR Mini Dome Network Camera,WDR,PAL				
	DH-IPC- HDBW4431FN-M/ M12-0600B	44MP IR Mini Dome Network Camera,WDR,NTSC				
	IPC- HDBW4431FP-M/ M12-0600B	4MP IR Mini Dome Network Camera,WDR,PAL				
	IPC- HDBW4431FN-M/ M12-0600B	4MP IR Mini Dome Network Camera,WDR,NTSC				
	PFB204W	Wall mount				
Accessories (optional)	PFA139	Junction box				
	PFA152	Pole mount				

Accessories

Optional:







Junction box	Pole Mount
PFA139 Junction box	PFB204W + PFA152 Pole Mount
PFA139	PFB204W + PFA152
6	
Wall Mount	
PFB204W Wall Mount	
PFB204W	
PFBZU4VV	

Dimensions (mm/inch)



