

DH-IPC-HFW4431B-AS-H

4MP HD WDR Network LXIR Bullet 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 intelliegence 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-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. 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.

- · 1/3" 4Megapixel progressive scan CMOS
- · Support H.264&MJPEG dual codec
- · Max 20fps@4M(2592×1520) & 25/30fps@3M(2304×1296)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 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(only for-AS)
- · Max. IR LEDs Length 50m
- · Micro SD memory (only for-AS), IP67, PoE













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		2592(H)x1520(V)				Motion Detetion	Off / On (4 Zone, Rectangle)
Scanning System		Progressive				Region of Interest	Off / On (4 Zone)
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s				-	
Min. Illumination		0.01Lux/F2.0 (Color), 0Lux/F2.0(IR on)				Electronic Image Stabilization (EIS)	N/A
S/N Ratio		More than 50dB				Smart IR	Support
Video Output		N/A				Defog	N/A
Lens						Digital Zoom	16x
		3.6mm (6mm optional)				Flip	0°/90°/180°/270°
Focal Length			optional			Mirror	Off / On
Max Aperture		F2.0(F1.9)				Privacy Masking	Off / On (4 Area, Rectangle)
Focus Control		Manual				Audio	
Angle of View Lens Type		H:81°(55°) Fixed lens				Compression	G.711a/ G.711u/ AAC
Mount Type		Board-in Type					
Would Type	Lens	Detect	Observe	Recognize	Identify	Network	
DORI Distance						Ethernet	RJ-45 (10/100Base-T)
DOM Distance	3.6 mm	80m(262ft)		16m(52ft)	8m(26ft)	Wi-Fi	N/A
Dave /Tilt /Davi	6.0 mm	117m(384ft)	47m(154ft)	23m(75It)	12m(39ft)	VV 1-1 1	IVA
Pan/Tilt/Rot						Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP,
Pan/Tilt/Rotati		Pan:0°~360°; Tilt:0°~87°; Rotation:0°~360°				Compatibility	ONVIF, PSIA, CGI
Intelligence						Max. User Access	20 users
IVS		Tripwire, Intrusion, Object Abandoned/Missing					
Advanced Intel	ligent Functions	Face Detection				Smart Phone	iPhone, iPad, Android, Windows Phone
Video						Certifications	
Compression		H.265+/H.265/H.264/H.264H/H.264B/MJPEG				Certifications	CE (EN 60950:2000)
Streaming Capability		3 Streams				Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Resolution		4M(2592×1520)/4M(2560×1440)/3M(2048× 1536)/1080P(1920×1080)/720P(1280×720)/				Interface	rec. recrait 13 Subparts
nesolution		D1(704×576/704×480)/CIF(352×288/352×240)				Memory Slot	Micro SD Max 128GB
Frame Rate		Main Stream: 4M(1~20fps)/3M(1~25/30fps)					N/A
		Sub Stream: D1/CIF(1~20fps)				RS485	
		Third Stream: 720P(1-20fps)				Alarm	1/1 channel In/Out N/A
Bit Rate		H.264: 32Kbps~10Mbps				PIR Sensor Range	N/A
Corridor Mode		Support				Electrical	
Day/Night BLC Mode		Auto(ICR) / Color / B/W BLC / HLC / WDR(120dB)				Power Supply	DC12V, PoE (802.3af)
Max. IR LEDs Le	ength	50m					
Max. III EEDS ECHBUI		33				Power Consumption	Max 4.9W

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Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal	
Dimensions	Ф90.4mm×241.8mm	
Weight	0.61Kg(with package 0.80kg)	

Ordering Information						
Туре	Part Number	Description				
4MP camera	DH-IPC-HFW4431B- AS-H	4MP HD WDR Network LXIR Bullet Camera, WDR, PAL				
4IVIP Calliera	IPC-HFW4431B- AS-H	4MP HD WDR Network LXIR Bullet Camera, WDR, NTSC				
Accessories	PFA135	Junction box				
(optional)	PFA150-E	Pole Mount				

Accessories

Optional:





PFA150-E Pole Mount

PFA135 Junction Box

Dimensions (mm/inch)





