

DH-IPC-HFW5431E-Z-H

4MP HD WDR Network IR Bullet Camera



- 1/3" 4Megapixel progressive scan CMOS
- H.265&H.264&MJPEG triple-stream encoding
- Max 20fps@4Mp(2560×1440),25/30fps@3Mp(2304×1296)
- Max 20fps@4Mp(2592×1520),25/30fps@3Mp(2304×1296)
- Smart Detection supported
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.7mm ~12mm motorized lens
- Max. IR LEDs Length 50m
- IP67, PoE



Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

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

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures 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. 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.

Protection

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

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Technical Specification		Day/Night	Auto(ICR) / Color / B/W
Camera		BLC Mode	BLC / HLC / WDR(120dB)
Image Sensor	1/3" 4Megapixel progressive scan CMOS	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels	2592(H) x 1520(V)	Gain Control	Auto/Manual
Scanning System	Progressive	Noise Reduction	3D DNR
Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s	Motion Detetion	Off / On (4 Zone, Rectangle)
Min. Illumination	0.01Lux/F1.4(Color),0Lux/F1.4(IR on)	Region of Interest	Off / On (4 Zone)
S/N Ratio	More than 50dB	Electronic Image Stabilization (EIS)	N/A
Video Output	1 port	Smart IR	Support
Lens		Defog	N/A
Focal Length	2.7mm~12mm	Digital Zoom	16x
Max Aperture	F1.4	Flip	0°/90°/180°/270°
Focus Control	Motorized	Mirror	Off / On
Angle of View	H: 100°~33°	Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type	Motorized/ Auto Iris(DC)	Audio	
Mount Type	Board-in Type	Compression	G.711a/ G.711u/AAC
Pan/Tilt/Rotation		Network	
Pan/Tilt/Rotation Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Ethernet	RJ-45 (10/100Base-T)
Intelligence		Wi-Fi	N/A
IVS	Tripwire, Intrusion, Object Abandoned/Missing	Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP,
Advanced Intelligent Functions	Face Detection	ONVIF	ONVIF,PSIA,CGI
Video		Max. User Access	20users
Compression	H.265+/H.265/H.264/H.264H/H.264B/MJPEG	Smart Phone	iPhone, iPad, Android, Windows Phone
Streaming Capability	3 Streams	Certifications	
Resolution	4M(2592x1520)/3M(2304x1296)/720P(1280x720)/D1(704x576/704x480)/CIF(352x288/352x240)	Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Frame Rate	Main Stream: 4Mp(1~20fps)/3Mp(1~25/30fps)	Interface	
	Sub Stream: D1(1~25/30fps)	Memory Slot	Micro SD, Max 128GB
	Third Stream: 720P(1-5/8fps)(WDR on) 720P(1-18/2fps)(WDR off)	RS485	N/A
Bit Rate Control	CBR/VBR	Alarm	2/1 channel In/Out
Bit Rate	H.264: 16K ~ 10Mbps	PIR Sensor Range	N/A
Corridor Mode	Support	Electrical	
		Power Supply	DC12V, PoE (802.3af)
		Power Consumption	<11.5W (with IR on, motorized lens working)

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Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	272.9 mm × 94.9mm× 94.9mm
Weight	1.1kg

Ordering Information

Type	Part Number	Description
4MP camera	DH-IPC-HFW5431E-Z-H	4MP HD WDR Network IR Bullet Camera,WDR,PAL
	IPC-HFW5431E-Z-H	4MP HD WDR Network IR Bullet CameraWDR,PAL
Accessories (optional)	PFA121	Junction box
	PFA152-E	Pole Mount

Accessories

Optional:



PFA121
Junction box



PFA152-E
Pole Mount

Dimensions (mm/inch)

