# DH-IPC-HFW5830E-Z

8MP IR Bullet Network Camera



- · 1/2.5" 8Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 dual-stream encoding
- · 15fps@4K(3840×2160),25/30fps@3Mp(2304×1296)
- · 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,IK10, PoE









#### **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**

#### 4K technology

 $4 \mbox{K}$  technology as a revolutionary breakthrough in image, which enhance the expressive image of essence, allowing users to experience the best picture quality brought about by the visual feast . For the purposes of  $4 \mbox{K}$  surveillance with four times the  $1080 \mbox{P}$  resolution, presented to the user with more details . Under the same scenario by raising the pixels , reduce the camera cost.

#### 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 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					Day/Night	Auto(ICR) / Color / B/W	
Camera						BLC Mode	BLC / HLC / DWDR
Image Sensor		1/2.5" 8Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		3840(H)x2160(V)				Gain Control	Auto/Manual
RAM/ROM		512MB/32MB				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.05Lux/F1.4 (Color,1/3s,30IRE) 0.2Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)				Electronic Image Stabilization (EIS)	N/A
S/N Ratio		More than 50dB				Smart IR	Support
IR Distance	IR Distance		o 50m (164ft)			Defog	N/A
IR On/Off Cont	rol	Auto/ Manual				Digital Zoom	16x
IR LEDs	IR LEDs					Flip	0°/90°/180°/270°
Lens						Mirror	Off / On
Lens Type			uto Iris(DC)			Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type		Board-in				Audio	
Focal Length		2.7mm~12mr	m			Compression	G.711a/ G.711Mu/ AAC/ G.726
Max. Aperture		F1.6				Network	
Angle of View		H:102°~39° , V:55°~22°				Ethernet	RJ-45 (10/100Base-T)
Optical Zoom		4x				Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;
Focus Control  Close Focus Distance		Motorized					IGMP; SNMP
Close Focus Dis	Lens	0.3m Detect	Observe	Recognize	Identify	Interoperability	ONVIF, PSIA, CGI
DORI	W	91m(299ft)	36m(118ft)	18m(59ft)	9m(30ft)	Streaming Method	Unicast / Multicast
Distance	Т	228m(748ft)	91m(299ft)	46m(151ft)	23m(75ft)	Max. User Access	10 Users /20 Users
	Pan/Tilt/Rotation			Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB		
Pan/Tilt/Rotati		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, Easy4ip
IVS	IVS		usion, Object .	Abandoned/M	lissing	Smart Phone	IOS, Android
	ligent Functions	Face Detection				Certifications	
Video							CE (EN 60950:2000)
Compression Streaming Canability		H.265+/H.265 3 Streams	5/H.264+/H.26	54		Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability		4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/				Interface	
Resolution		3M(2048x1536)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480) / VGA(640×480)/CIF(352×288/352×240)			/	Video Interface	N/A
					<b>'</b>	Audio Interface	1/1 channel In/Out
Frame Rate		Main Stream: 4K(1~15fps)/3M(1~25/30fps)				RS485	N/A
		Sub Stream: D1(1~25/30fps)				Alarm	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
		Third Stream: 720P(1~25/30fps)				Electrical	
Bit Rate Control		CBR/VBR				Power Supply	DC12V, PoE (802.3af)(Class 0)
Bit Rate		H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps				Power Consumption	<11.5W

## 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	273.2mm×95.0mm×96.4mm (10.76"×3.74"×3.79")
Net Weight	1.07Kg (2.36lb)
Gross Weight	1.4Kg (3.09lb)

Ordering Information					
Туре	Part Number	Description			
8MP camera	DH-IPC- HFW5830EP-Z	8MP IR Bullet Network Camera, PAL			
	DH-IPC- HFW5830EN-Z	8MP IR Bullet Network Camera, NTSC			
	IPC-HFW5830EP-Z	8MP IR Bullet Network Camera, PAL			
	IPC- HFW5830EN-Z	8MP IR Bullet Network Camera, NTSC			
Accessories (optional)	PFA121	Junction box			
	PFA152	Pole Mount			

## Accessories

## Optional:



PFA121 Junction box



Junction Mount	Pole Mount
PFA121	PFB121 + PFA152

# Dimensions (mm/inch)



