

# 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



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Technical Specification				Day/Night	Auto(ICR) / Color / B/W	
Camera			BLC Mode	BLC/HLC/DWDR		
Image Sensor 1/2.5" 8Megapixel progressive scan CMOS			OS .	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		(Color,1/3s,30 (Color,1/30s,30 on)			Electronic Image Stabilization (EIS)	N/A
S/N Ratio	More than 5	OdB			Smart IR	Support
IR Distance	Distance up	to 50m (164ft)			Defog	N/A
IR On/Off Control	Auto/ Manua	al			Digital Zoom	16x
IR LEDs	4				Flip	0°/90°/180°/270°
Lens					Mirror	Off / On
Lens Type	Motorized/ A	Auto Iris(DC)			Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type	Board-in				Audio	
Focal Length	2.7mm~12m	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 Focus Control	4x Motorized				Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;
						IGMP; SNMP
Close Focus Distance  Lens	0.3m	Observe	Pocognizo	Idontify	Interoperability	ONVIF, PSIA, CGI
DORI	Detect 91m(299ft)		Recognize 18m(59ft)	Identify 9m(30ft)	Streaming Method	Unicast / Multicast
Distance T		91m(299ft)		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/Rotation Range	Pan:0°~360°;	Tilt:0°~90°; Ro	tation:0°~360	٥	Web Viewer	IE, Chrome, Firefox, Safari
Intelligence					Management Software	Smart PSS, DSS, Easy4ip
IVS	Tripwire, Intr	usion, Object i	Abandoned/M	lissing	Smart Phone	IOS, Android
Advanced Intelligent Funct	ons Face Detecti	on			Certifications	,
Video					Certifications	CE (EN 60950:2000)
Compression	H.265+/H.26	5/H.264+/H.26	54		Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability	3 Streams	50\/5\4/2072	2040\/514/250	1020\	Interface	·
Decelution .	3M(2048x15	4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/ 3M(2048x1536)/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)			Video Interface	N/A
Resolution	720P(1280×				Audio Interface	1/1 channel In/Out
		: 4K(1~15fps)/		rs)	RS485	N/A
Frame Rate		D1(1~25/30fps			Alarm	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
	Third Stream	n: 720P(1~25/3	Ofps)		Electrical	
Bit Rate Control	CBR/VBR				Power Supply	DC12V, PoE (802.3af)(Class 0)
	Bit Rate H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbp			0.41/hms	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)



