

DH-IPC-HFW5431E-Z5

4MP WDR IR Bullet 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, People Counting, 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.

- · 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 dual-stream encoding
- · 25/30fps@4Mp(2688×1520)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 7mm ~35mm 5x zoom lens
- · 2/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 100m
- · Micro SD memory, IP67, PoE











Supporting $\pm 30\%$ 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





Eco Savvy 3.0 | DH-IPC-HFW5431E-Z5

Technical S	pecification					Day/Night	Auto(ICR) / Color / B/W
Technical Specification Camera					BLC Mode	BLC / HLC / WDR(120dB)	
		1/2" (Maganiya) progressive seen ChACC				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Image Sensor		1/3" 4Megapixel progressive scan CMOS				Gain Control	Auto/Manual
Effective Pixels		2688(H) x 1520(V)					
RAM/ROM		512MB/32MB				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shut	ter Speed	Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.03Lux/F1.4 (Color,1/3s,30IRE) 0.3Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)				Electronic Image Stabilization (EIS) Smart IR	N/A
S/N Ratio		More than 50dB					Support
R Distance		Distance up to 100m (328ft)				Defog	N/A
IR On/Off Contr	·ol	Auto/ Manual				Digital Zoom	16x
IR LEDs		4				Flip	0°/90°/180°/270°
Lens						Mirror	Off / On
Lens Type		Motorized/ Auto Iris(HALL)				Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type						Audio	
Focal Length		Board-in 7mm~35mm				Compression	G.711a/ G.711Mu/ AAC/ G.726
Max. Aperture		F1.4				Network	
		H: 32°~10°, V:18°~6°				Ethernet	RJ-45 (10/100Base-T)
Angle of View Optical Zoom		5x				Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMT FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;
Focus Control		Motorized					IGMP; SNMP
Close Focus Dis	tance	0.4m				Interoperability	ONVIF, PSIA, CGI
	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
OORI Distance	W	190m(623ft)	76m(249ft)	38m(124ft)	19m(62ft)	Max. User Access	10 Users /20 Users
	Т .	620m(2034ft)	248m(813ft)	124m(406ft)	62m(203ft)	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rot	ation					Web Viewer	IE, Chrome, Firefox, Safari
Pan/Tilt/Rotation	on Range	Pan:0°~360°; T	ilt:0°~90°; Rota	ntion:0°~360°		Management Software	Smart PSS, DSS, Easy4ip
ntelligence						Smart Phone	IOS, Android
VS		Tripwire, Intrusion, Object Abandoned/Missing				Certifications	
Advanced Intell Video	igent Functions	Face Detection				Certifications	CE (EN 60950:2000) UL:UL60950-1
Compression		H.265+/H.265/H.264+/H.264				_	FCC: FCC Part 15 Subpart B
	hility					Interface	
Streaming Capability		3 Streams 4M(2688×1520)/3M(2304×1296)/				Video Interface	1 Port(For adjustment only)
Resolution		1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×20)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				Audio Interface	1/1 channel In/Out N/A
Frame Rate		Main Stream: 4M(1~25/30fps)				Alarm	2 channel In: 5mA 5VDC
		Sub Stream: D1(1~25/30fps)				Electrical	1 channel Out: 300mA 12VDC
		Third Stream: 720P(1~25/30fps)					
		Third Stream: 7	720P(1~25/30f	ps)		Power Supply	DC12V, PoE (802.3af)(Class 0)



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Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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			
	DH-IPC- HFW5431EP-Z5	4MP WDR IR Bullet Network Camera,WDR,PAL			
4MP camera	DH-IPC- HFW5431EN-Z5	4MP WDR IR Bullet Network Camera,WDR,NTSC			
4MP Camera	IPC- HFW5431EP-Z5	4MP WDR IR Bullet Network Camera,WDR,PAL			
	IPC- HFW5431EN-Z5	4MP WDR IR Bullet Network Camera,WDR,NTSC			
Accessories	PFA121	Junction box			
(optional)	PFA152	Pole Mount			

Accessories

Optional:





PFA121 Junction box

PFA152 Pole Mount

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152

Dimensions (mm/inch)







