

DH-IPC-HFW4431E-Z-S4

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

Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.01 lux).

Wide Dynamic Range

Embedded 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, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

- · 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 triple-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
- · 2.7mm ~13.5mm motorized lens
- · 2/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50m
- · Micro SD memory 256GB, IP67, IK10, PoE















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

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV 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.



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		2688(H) x 1520(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		0.01Lux/F1.6 (Color,1/3s,30IRE) 0.1Lux/F1.6(Color,1/30s,30IRE) 0Lux/F1.6(IR on)				Electronic Image Stabilization (EIS)	N/A
IR Distance		Distance up to 50m (164ft)				Smart IR	Support
IR On/Off Contr	rol	Auto/ Manual				Defog	N/A
IR LEDs		4				Digital Zoom	16x
Lens						Flip	0°/90°/180°/270°
Lens Type		Motorized				Mirror	Off / On
Mount Type		Board-in				Privacy Masking	Off / On (4 Area, Rectangle)
Focal Length		2.7mm~13.5mm				Audio	
Max. Aperture		F1.6				Compression	G.711a/ G.711Mu/ AAC/ G.726
Angle of View		H: 100°~27°, V:54°~16°				Network	
Optical Zoom		5x				Ethernet	RJ-45 (10/100Base-T)
Aperture Type		Fixed				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 Dis		0.8m				Interoperability	ONVIF, PSIA, CGI
DORI	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
Distance	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)	Max. User Access	10 Users /20 Users
T Pan/Tilt/Rotation		222m(728ft)	89m(292ft)	44m(144ft)	22m(72ft)	Edge Storage	NAS Local PC for instant recording Mirco SD card 256GB
Pan/Tilt/Rotation Range		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, Easy4ip
IVS		Tripwire, Intru	usion, Object A	Abandoned/N	lissing	Smart Phone	IOS, Android
Advanced Intell	igent Functions	Face Detection				Certifications	
Video Compression		H.265+/H.265	5/H.264+/H.26	54		Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability		3 Streams				Interface	rec. rec rait 13 Subpart b
Resolution		4M(2688×1520)/3M(2304×1296)/				Video Interface	1 Port(For adjustment only)
		1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)			/	Audio Interface	1/1 channel In/Out
Frame Rate		Main Stream: 4M(1~25/30fps)				RS485	N/A
		Sub Stream: D1(1~25/30fps)					2 channel In: 5mA 5VDC
		Third Stream: 1080P(1~14/4fps)				Alarm	1 channel Out: 300mA 12VDC
Bit Rate Control		CBR/VBR				Electrical	
Bit Rate		H.264: 32~10240Kbps H.265: 32~8192Kbps				Power Supply	DC12V, PoE (802.3af)(Class 0)
						Power Consumption	<11.8W

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	IK10

Construction

Casing	Metal
Dimensions	272.9mm×94.9mm×94.9mm (10.74"×3.74"×3.74")
Net Weight	1.11Kg (2.36lb)
Gross Weight	1.51Kg (3.09lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HFW4431EP-Z-S4	4MP WDR IR Bullet Network Camera,WDR,PAL			
40 4D 20 22 22	DH-IPC- HFW4431EN-Z-S4	4MP WDR IR Bullet Network Camera,WDR,NTSC			
4MP camera	IPC-HFW4431EP- Z-S4	4MP WDR IR Bullet Network Camera,WDR,PAL			
	IPC-HFW4431EN- Z-S4	4MP WDR IR Bullet Network Camera,WDR,NTSC			
Accessories	PFA121	Junction box			
(optional)	PFA152-E	Pole Mount			

Accessories

Optional:





PFA121 Junction box

PFA152-E Pole Mount

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152-E

Dimensions (mm/inch)





