

DH-IPC-HFW4431E-S

4MP WDR IR Mini Bullet Network Camera



- \cdot 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4M(2688×1520)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 3.6mm fixed lens (6mm optional)
- · Max. IR LEDs Length 40m
- · Micro SD memory, IP67, 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

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, 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.

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							White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Camera						Gain Control	Auto/Manual	
Image Sensor		1/3" 4Megapixel progressive scan CMOS					Noise Reduction	3D DNR
Effective Pixels		2688(H)x1520(V)					Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		512MB/32MB					Region of Interest	Off / On (4 Zone)
Scanning System		Progressive						Off / Off (4 Zoffe)
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s					Electronic Image Stabilization (EIS)	N/A
Minimum Illumination		0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)					Smart IR	Support
S/N Ratio		More than 50dB					Defog	N/A
IR Distance		Distance up to 40m (131ft)					Digital Zoom	16x
IR On/Off Control		Auto/ Manual					Flip	0°/90°/180°/270°
IR LEDs		2					Mirror	Off / On
Lens							Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Fixed					Audio	
Mount Type		Board-in					Compression	N/A
Focal Length		3.6mm (6mm optional)					Network	
Max. Aperture		F2.0 (F2.0)					Ethernet	RJ-45 (10/100Base-T)
Angle of View Optical Zoom		H: 87° (55°), V: 48° (31°) N/A					Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS;
Focus Control		Fixed					11010001	UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Close Focus Distance		N/A					Interoperability	ONVIF, PSIA, CGI
	Lens	Detect	Observe	Recognize	Identify		Streaming Method	Unicast / Multicast
DORI Distance	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)		Max. User Access	10 Users /20 Users
D /T:I+ /D	6.0 mm	117m(384ft)	4/m(154ft)	23m(75ft)	12m(39ft)			NAS
Pan/Tilt/Rotation Pan/Tilt/Rotation Range		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°					Edge Storage	Local PC for instant recording Mirco SD card 128GB
Intelligence							Web Viewer	IE, Chrome, Firefox, Safari
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Management Software	Smart PSS, DSS, Easy4ip
Advanced Intel	ligent Functions	Face Detection	n		-		Smart Phone	IOS, Android
	ingent runctions	race Detection					Certifications	
Video								CE (EN 60950:2000)
Compression		H.265+/H.265/H.264+/H.264					Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capa	ability	3 Streams					Interface	
Resolution		4M(2688×1520)/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
Frame Rate		Main Stream: 4M(1~25/30fps)					Audio Interface	N/A
		Sub Stream: D1(1~25/30fps)					RS485	N/A
							Alarm	N/A
Rit Rate Control		Third Stream: 720P(1~25/30fps)					Electrical	
Bit Rate Control		CBR/VBR H.264: 24~10240Kbps					Power Supply	DC12V, PoE (802.3af)(Class 0)
Bit Rate		H.265: 14~6144Kbps					Power Consumption	<6W
Day/Night		Auto(ICR) / Color / B/W						
BLC Mode		BLC / HLC / WDR(120dB)						

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	180mm×70mm×70mm (7.09"×2.76"×2.76")
Net Weight	0.41kg (0.91lb)
Gross Weight	0.53 kg (1.17lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HFW4431EP-S- 0360B	4MP IR Mini Bullet Network Camera, WDR, PAL			
	DH-IPC- HFW4431EN-S- 0360B	4MP IR Mini Bullet Network Camera, WDR, NTSC			
	IPC-HFW4431EP-S- 0360B	4MP IR Mini Bullet Network Camera, WDR, PAL			
4MP camera	IPC-HFW4431EN-S- 0360B	4MP IR Mini Bullet Network Camera, WDR, NTSC			
4IVIP Calliera	DH-IPC- HFW4431EP-S- 0600B	4MP IR Mini Bullet Network Camera, WDR, PAL			
	DH-IPC- HFW4431EN-S- 0600B	4MP IR Mini Bullet Network Camera, WDR, NTSC			
	IPC-HFW4431EP-S- 0600B	4MP IR Mini Bullet Network Camera, WDR, PAL			
	IPC-HFW4431EN-S- 0600B	4MP IR Mini 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)



