

# DH-IPC-HFW4431E-S-S4

4MP WDR IR Mini 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

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.

- · 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
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 3.6mm fixed lens (6mm optional)
- · Max. IR LEDs Length 40m
- · Micro SD memory 256GB, IP67, PoE,



#### Environmental

With a temperature range of -40 °C to +60 °C (-40°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  $\pm 30\%$  input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 2KV 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**

Came	era
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Camera							
Image Sensor		1/3" 4Megap	1/3" 4Megapixel progressive scan CMOS				
Effective Pixels		2688(H)x1520(V)					
RAM/ROM		512MB/32ME	3				
Scanning System	m	Progressive					
Electronic Shutt	er Speed	Auto/Manual, 1/3(4)~1/100000s					
Minimum Illumination		0.01Lux/F2.0( Color,1/3s,30IRE) 0.3Lux/F2.0( Color,1/30s,30IRE) 0Lux/F2.0(IR on)					
IR Distance		Distance up to 40m (131ft)					
IR On/Off Contr	rol	Auto/ Manua	I				
IR LEDs		2					
Lens							
Lens Type		Fixed					
Mount Type		Board-in					
Focal Length		3.6mm (6mm optional)					
Max. Aperture		F2.0 (F2.0)					
Angle of View		H: 81° (51°), V	: 44° (29°)				
Optical Zoom		N/A					
Aperture Type		Fixed					
Close Focus Dis	tance	1.4m/2.8m					
	Lens	Detect	Observe	Recognize	Identify		
DORI Distance	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)		
	6.0 mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)		
Pan/Tilt/Rotation							
Pan/Tilt/Rotati	on Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°					
Intelligence							
IVS		Tripwire, Intrusion, Object Abandoned/Missing					
Advanced Intelligent Functions		Face Detection					
Video							
Compression		H.265+/H.265/H.264+/H.264					
Streaming Capability		3 Streams					
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)					
Frame Rate		Main Stream: 4M(1~25/30fps)					
		Sub Stream: D1(1~25/30fps)					
		Third Stream: 1080P(1~14/4fps)					
		miru stream:			CBR/VBR		
Bit Rate Contro	I						
Bit Rate Contro Bit Rate	I		0240Kbps				
	I	CBR/VBR H.264: 192~1	0240Kbps 92Kbps				

White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Support
Defog	N/A
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Audio	
Compression	N/A
Network	
Ethernet	RJ-45 (10/100Base-T)
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
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	10 Users /20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card 256GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, Easy4ip
Smart Phone	IOS, Android
Certifications	
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Interface	
Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A
Electrical	
Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	<8.2W

# Eco Savvy 3.0 | DH-IPC-HFW4431E-S-S4

### Environmental

Operating Conditions	-40° C $^{\sim}$ +60° C (-40° 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	0.43kg (0.95lb)
Gross Weight	0.56 kg (1.23lb)

## **Ordering Information**

Туре	Part Number	Description
4MP camera	DH-IPC- HFW4431EP-S- 0360B-S4	4MP IR Mini Bullet Network Camera, WDR, PAL
	DH-IPC- HFW4431EN-S- 0360B-S4	4MP IR Mini Bullet Network Camera, WDR, NTSC
	IPC-HFW4431EP-S- 0360B-S4	4MP IR Mini Bullet Network Camera, WDR, PAL
	IPC-HFW4431EN-S- 0360B-S4	4MP IR Mini Bullet Network Camera, WDR, NTSC
	DH-IPC- HFW4431EP-S- 0600B-S4	4MP IR Mini Bullet Network Camera, WDR, PAL
	DH-IPC- HFW4431EN-S- 0600B-S4	4MP IR Mini Bullet Network Camera, WDR, NTSC
	IPC-HFW4431EP-S- 0600B-S4	4MP IR Mini Bullet Network Camera, WDR, PAL
	IPC-HFW4431EN-S- 0600B-S4	4MP IR Mini Bullet Network Camera, WDR, NTSC
Accessories (optional)	PFA121	Junction box
	PFA152-E	Pole Mount

### Accessories

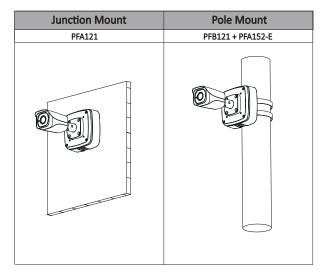
# **Optional:**





PFA121 Junction box

PFA152-E Pole Mount



# Dimensions (mm/inch)

