

DH-IPC-HFW4431T-ASE

4MP WDR IR Mini Bullet Network Camera



- · 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 60m
- · Micro SD memory, IP67, IK10, PoE













System Overview

With upgraded H.265 encoding technology, Eco-savvy series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features starlight, smart IR technology and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

Functions

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Wide Dynamic Range(WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a

warning message to inspect the camera.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity, allowing the camera to operate in the harshest environments.

Protection(IP67, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 4KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67), the camera is the choice for installation in even the most unforgiving environments.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



Technical S	pecification						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						
Scanning Syste	m	Progressive					Region of Interest	Off / On (4 Zone)
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Electronic Image Stabilization (EIS)	N/A
Minimum Illumination		0.06Lux/F1.6(Color,1/3s,30IRE) 0.4Lux/F1.6(Color,1/30s,30IRE)					Smart IR	Support
		OLux/F1.6(IR on)					Defog	N/A
S/N Ratio		More than 50dB					Digital Zoom	16x
IR Distance		Distance up to 60m (197ft)					Flip	0°/90°/180°/270°
IR On/Off Control		Auto/ Manual					Mirror	Off / On
IR LEDs		4						Off / On (4 Area, Rectangle)
Lens							Privacy Masking	On , On (Traice, Nectaligie)
Lens Type		Fixed					Audio	
Mount Type		Board-in					Compression	G.711a/ G.711Mu/ AAC/ G.726
Focal Length		3.6mm (6mm optional)					Network	
Max. Aperture		F1.6 (F1.6)					Ethernet	RJ-45 (10/100Base-T)
Angle of View Optical Zoom		H: 83° (55°), V: 45° (31°) N/A					Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;
Focus Control Close Focus Distance		Fixed 1.5m (3.1m)						IGMP; SNMP
Close i ocus bis	Lens	Detect	Observe	Recognize	Identify		Interoperability	ONVIF, PSIA, CGI
DORI Distance	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)		Streaming Method	Unicast / Multicast
	6.0 mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)		Max. User Access	10 Users /20 Users
Pan/Tilt/Ro							Edge Storage	NAS Local PC for instant recording Mirco SD card 1286B
Pan/Tilt/Rotation Range		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°					Mala Mississa	
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					Smart Phone	IOS, Android
Video							Certifications	
Compression		H.265+/H.265/H.264+/H.264					Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capa	ability	3 Streams					Interface	red. Feet are 15 Saspare 5
Resolution		4M(2688×1520)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/					Video Interface	N/A
		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) Third Stream: 7300(1~25/30fps)					Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Bit Rate Control		Third Stream: 720P(1~25/30fps) CBR/VBR					Electrical	
		H.264: 24K ~ 10240Kbps					Power Supply	DC12V, PoE (802.3af)(Class 0)
Bit Rate		H.265: 14K ~ 9984Kbps						
Day/Night BLC Mode		Auto(ICR) / Color / B/W BLC / HLC / WDR(120dB)					Power Consumption	<11W

Eco Savvy 3.0 | DH-IPC-HFW4431T-ASE

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	244.1mm×79mm×75.9mm (9.61"×3.11"×2.99")
Net Weight	0.815kg (1.80lb)
Gross Weight	1.08kg (2.38lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HFW4431TP-ASE- 0360B	4MP IR Mini Bullet Network Camera, WDR, PAL			
	DH-IPC- HFW4431TN-ASE- 0360B	4MP IR Mini Bullet Network Camera, WDR, NTSC			
	IPC-HFW4431TP- ASE-0360B	4MP IR Mini Bullet Network Camera, WDR, PAL			
4MP camera	IPC-HFW4431TN- ASE-0360B	4MP IR Mini Bullet Network Camera, WDR, NTSC			
4IVIF CAITIETA	DH-IPC- HFW4431TP-ASE- 0600B	4MP IR Mini Bullet Network Camera, WDR, PAL			
	DH-IPC- HFW4431TN-ASE- 0600B	4MP IR Mini Bullet Network Camera, WDR, NTSC			
	IPC-HFW4431TP- ASE-0600B	4MP IR Mini Bullet Network Camera, WDR, PAL			
	IPC-HFW4431TN- ASE-0600B	4MP IR Mini Bullet Network Camera, WDR, NTSC			
	PFA135	Junction box			
Accessories (optional)	PFA152-E	Pole Mount			
	LR1002	ePoE Over Coax Converter			

Accessories

Optional:







PFA152-E Pole Mount



LR1002 ePoE Over Coax Converter

Junction Mount	Pole Mount
PFA135	PFA135 + PFA152-E

Dimensions (mm/inch)



