

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 System	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) 0Lux/F1.6(IR on)					Smart IR	Support
S/N Ratio		More than 50dB					Defog	N/A
IR Distance		Distance up to 60m (197ft)					Digital Zoom	16x
IR On/Off Control		Auto/ Manual					Flip	0°/90°/180°/270°
IR LEDs		4					Mirror	Off / On
Lens							Privacy Masking	Off / On (4 Area, Rectangle)
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		H: 83° (55°), V: 45° (31°)						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
Optical Zoom Focus Control		N/A Fixed					Protocol	
Close Focus Distance		1.5m (3.1m)					Interoperability	ONVIF, PSIA, CGI
DOBI Distance	Lens	Detect	Observe	Recognize	Identify		Streaming Method	Unicast / Multicast
DORI Distance	3.6 mm 6.0 mm	80m(262ft) 120m(394ft)	32m(105ft)	16m(52ft)	8m(26ft) 12m(39ft)		Max. User Access	10 Users /20 Users
Pan/Tilt/Rot		120111(39411)	40111(13711)	24111(7511)	12111(3911)			NAS
Pan/Tilt/Rotati		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°					Edge Storage	Local PC for instant recording Mirco SD card 128GB
, , ,		Tallie See, Mice Se, Notationile See					Web Viewer	IE, Chrome, Firefox, Safari
Intelligence Ivs		Trinuira Intrucion Object Abandanad/Missing					Management Software	Smart PSS, DSS, Easy4ip
	licent Functions	Tripwire, Intrusion, Object Abandoned/Missing					Smart Phone	IOS, Android
	ligent Functions	Face Detectio)TI				Certifications	
Video							oer amountons	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(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)					Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Dit Data Control		Third Stream: 720P(1~25/30fps)					Electrical	2
Bit Rate Control		CBR/VBR H.264: 24K ~ 10240Kbps						DC13V DoE (003 3-5VC) 01
Bit Rate		H.265: 14K ~ 9984Kbps					Power Supply	DC12V, PoE (802.3af)(Class 0)
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 Calliela	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)



