

DH-IPC-HFW4231T-ASE

2MP WDR IR Mini Bullet Network Camera



- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H. 265&H.264 triple-stream encoding
- ·50/60fps@1080P(1920×1080)
- · 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, 8mm, 12mm optional)
- · Max. IR LEDs Length 80m
- · 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.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.002lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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, IK10, 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) and impact tests(IK10), 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 Specification						BLC Mode	BLC / HLC / WDR(120dB)		
Camera							White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS					Gain Control	Auto/Manual	
Effective Pixels		1920(H) x 1080(V)					Noise Reduction	3D DNR	
RAM/ROM		256MB/32MB					Motion Detetion	Off / On (4 Zone, Rectangle)	
Scanning System		Progressive Auto/Manual, 1/3~1/100000s					Region of Interest	Off / On (4 Zone)	
Electronic Shutter Speed		0.009Lux/F1.6(Color,1/3s,30IRE)					_	011 / 011 (4 2011C)	
Minimum Illumination		0.07Lux/F1.6(Color, 1/30s, 30IRE) 0Lux/F1.6(IR on)					Electronic Image Stabilization (EIS)	N/A	
S/N Ratio		More than 50dB					Smart IR	Support	
IR Distance		Distance up to 80m (262ft)					Defog	N/A	
IR On/Off Control		Auto/ Manual					Digital Zoom	16x	
IR LEDs		4					Flip	0°/90°/180°/270°	
Lens							Mirror	Off / On	
Lens Type Mount Type		Fixed Board-in					Privacy Masking	Off / On (4 Area, Rectangle)	
Focal Length		3.6mm (6mm, 8mm, 12mm optional)					Audio		
Max. Aperture		F1.6 (F1.6, F1.6, F1.6)						C 741-1C 741NA-1 NAC C 72C	
Angle of View		H: 87° (52°, 41°, 26°), V: 46° (30°, 22°, 14°)					Compression	G.711a/ G.711Mu/ AAC/ G.726	
Focus Control		Fixed					Network		
Close Focus Distance		1.2m(2.4m, 4m, 8.6m)					Ethernet	RJ-45 (10/100Base-T)	
	Lens	Detect	Observe	Recognize	Identify			HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS	
DORI Distance	3.6 mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)		Protocol		
	6.0 mm 8.0 mm	83m(289ft) 110m(361ft)	33m(108ft) 44m(144ft)		8m(26ft) 11m(36ft)		Interoperability	ONVIF, PSIA, CGI	
	12.0 mm	172m(564ft)		35m(115ft)	17m(56ft)		Streaming Method	Unicast / Multicast	
Pan/Tilt/Rot	ation					Max. User Access	10 Users /20 Users		
Pan/Tilt/Rotation	on Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°					Edge Storage	NAS	
Intelligence	Ü	Tanto 300 , Tilico 30 , Notationio 300						Local PC for instant recording Mirco SD card 128GB	
		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal					Web Viewer	IE, Chrome, Firefox, Safari	
Event Trigger		Access,Storag	,	address confi	lict, illegal		Management Software	Smart PSS, DSS, Easy4ip	
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Smart Phone	IOS, Android	
Advanced Intell	igent Functions	Face Detection					Certifications	tifications	
Video							Certifications	CE (EN 60950:2000) UL:UL60950-1	
Compression		H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)						FCC: FCC Part 15 Subpart B	
Smart Codec		Support H.265+/H.264+					Interface		
Streaming Capability		3 Streams 1080P(1920x1080)/1.3M(1280x960)/					Video Interface	N/A	
Resolution		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: 1080P (1~50/60fps)					RS485	N/A 1 channel In: 5mA 5VDC	
		Sub Stream: D1(1~50/60fps)					Alarm	1 channel Out: 300mA 12VDC	
		Third Stream: 1080P(1~25/30fps)					Electrical		
Bit Rate Control		CBR/VBR					Power Supply	DC12V, PoE (802.3af)(Class 0)	
Bit Rate		H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps					Power Consumption	DC12V: 2.8W, 9.8W(IR On)	
Day/Night		Auto(ICR) / Color / B/W						PoE: 3.4W, 12W(IR On)	

Eco Savvy 3.0 | DH-IPC-HFW4231T-ASE

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	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- HFW4231TP-ASE	2MP IR Mini Bullet Network Camera, WDR, PAL			
2MP camera	DH-IPC- HFW4231TN-ASE	2MP IR Mini Bullet Network Camera, WDR,NTSC			
ZIVIP Camera	IPC-HFW4231TP- ASE	2MP IR Mini Bullet Network Camera, WDR,PAL			
	IPC-HFW4231TN- ASE	2MP 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)



