

DH-IPC-HFW5231E-ZE-BG

2MP WDR IR Bullet Network Camera for ANPR system





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 0.006lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

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.

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- \cdot 2.7mm ~13.5mm motorized lens, ideal for monitor ANPR distance as 3~8m
- · 2/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50m















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.

Protection(IP67, IK10, wide voltage)

The camera allows for $\pm 30\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV 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 Spe	cification					Day/Night	Auto(ICR) / Color / B/V
Camera					BLC Mode	BLC / HLC / WDR(120d	
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street L
Effective Pixels		1920(H) x 1080(V)				Gain Control	Auto/Manual
RAM/ROM		256MB/32MB for Operating system				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detetion	Off / On (4 Zone, Rect
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.006Lux/F1.4 (Color,1/3s,30IRE) 0.05Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4 (IR on)				Electronic Image Stabilization (EIS)	N/A
S/N Ratio		More than 50dB				Smart IR	Support
IR Distance		Distance up to 50m (164ft)				Defog	N/A
IR On/Off Control		Auto/ Manual				Digital Zoom	16x
IR LEDs		4				Flip	0°/90°/180°/270°
						Mirror	Off / On
Lens Type		Motorized/ Auto Iris(DC)				Privacy Masking	Off / On (4 Area, Recta
Mount Type		Board-in				Audio	
Focal Length		2.7mm~13.5mm				Compression	G.711a/ G.711Mu/ AA
-		F1.4				Network	
Max. Aperture		H: 101°~31°, V:54°~17°				Ethernet	RJ-45 (10/100Base-T)
Angle of View Optical Zoom		5x				Protocol	HTTP; HTTPs; TCP; AR FTP; DHCP; DNS; DDN: UPnP;NTP; Bonjour; 8
Focus Control		Motorized					IGMP; SNMP
Close Focus Distar	nce	0.3m				Interoperability	ONVIF, PSIA, CGI
DORI	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
Distance	W	44m(144ft)	18m(59ft)	9m(29ft)	4m(13ft)	Max. User Access	10 Users /20 Users
	T	143m(469ft)	57m(187ft)	28m(92ft)	14m(46ft)	Edge Storage	NAS Local PC for instant re Mirco SD card 128GB
Pan/Tilt/Rotat						Web Viewer	IE, Chrome, Firefox, S
Pan/Tilt/Rotation	Range	Pan:0°~360°;	Tilt:0°~90°; Ro	otation:0°~360	O°	Management Software	Smart PSS, DSS, Easy4
Intelligence						Smart Phone	IOS, Android
IVS		Tripwire, Intrusion, Object Abandoned/Missing				Certifications	
Advanced Intelligent Functions Video		Face Detection				Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Sub
Compression		H.265+/H.265/H.264+/H.264				Interface	1 CC. 1 CC 1 alt 13 3ub)
Streaming Capability		3 Streams				Video Interface	1 Port(For adjustmen
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/ VGA(640x480)/CIF(352x288/352x240)				Audio Interface	1/1 channel In/Out
Frame Rate		Main Stream: 1080P(1~50/60fps)				Serial	Support
		Sub Stream: D1(1~50/60fps)				Alarm	2 channel In: 5mA 5VI 1 channel Out: 300m
		Third Stream: 1080P(1~25/30fps)				Electrical	
Bit Rate Control		CBR/VBR				Power Supply	DC12V, PoE (802.3af)
Bit Rate			72Vbns 4.2	65: 14~5632K	hns	Power Consumption	<12.95W

Eco Savvy 3.0 | DH-IPC-HFW5231E-ZE-BG

Environmental

Operating Conditions	-35° 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	273.2mm×95.0mm×95.0mm (10.76"×3.74"×3.74")
Net Weight	1.11Kg (2.44lb)
Gross Weight	1.51Kg (3.33lb)

Accessories

Optional:







PFA152-E Pole Mount



LR1002 ePoE Over Coax Converter

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152



