

DH-IPC-HFW8232E-Z12-IRA

2MP Starlight IR Bullet Network Camera



- · 1/1.9" 2Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 7mm~84mm 12x zoom lens
- · Max. IR LEDs Length 150m
- · Micro SD memory, IP67, PoE+













System Overview

Ultra series adopts high performance DSP and Sony advanced image sensor technology, which can provide excellent image effects for users. With Dahua advanced software algorithm, the series is able to support people counting and heat map which brings extra business analysis value for customers.

Functions

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.

Business intelligent analysis (People counting, Heatmap)

Dahua Camera also supports more advanced intelligent features such as people counting and heat map besides basic IVS functions. These two functions can be applied to business intelligence and bring extra values to customers. It is available to acquire daily, weekly, monthly and yearly people flow via people counting and output data report. Heat map can be based on a moving object in time of space movement for analysis, find the most active area and output the report, which is to provide valuable data support for commercial applications.

Smart Scene Adaptive (SSA)

Smart Scene Adaptive (SSA) is an intelligent image technology, developed by Dahua that automatically evaluates and compensates for changes in the luminance of a scene. SSA automatically regulates the exposure parameters to improve image quality in a backlit scene, especially in scenes with traffic lights or headlights.

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) 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 Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.



Technical Specification							Bit Rate Control	CBR/VBR
Camera							Bit Rate	H.264: 16 ~ 10240Kbps H.265: 8 ~ 5120Kbps
Image Sensor		1/1.9" 2Megapixel progressive scan CMOS					Day/Night	Auto(ICR) / Color / B/W
Effective Pixels		1920(H)x1080(V)					BLC Mode	BLC / HLC / WDR(120dB)/ SSA
RAM/ROM		1024MB/128MB					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Scanning Syster	m	Progressive					Gain Control	Auto/Manual
Electronic Shut	ter Speed	Auto/Manual, 1/3~1/100000s					Noise Reduction	3D DNR
Minimum Illum	ination	0.002Lux/F1.5 (Color,1/3s,30IRE) 0.01Lux/F1.5 (Color,1/30s,30IRE) 0Lux/F1.5(IR on)					Motion Detection	Off / On (4 Zone, Rectangle)
S/N Ratio		More than 50dB					Region of Interest	Off / On (4 Zone)
IR Distance		Distance up to 150m (492ft)					Electronic Image Stabilization (EIS)	Support
IR On/Off Contr	rol	Auto/ Manual					Smart IR	Support
IR LEDs		6					Defog	Support
Lens							Digital Zoom	16x
Lens Type		Motorized /Auto Iris(HALL)					Flip	0°/90°/180°/270°
Mount Type		Board-in					Mirror	Off / On
Focal Length		7mm~84mm					Privacy Masking	Off / On (4 Area, Rectangle)
Max. Aperture		F1.5					Audio	, , , ,
Angle of View		H: 55°~6°, V:32°~3°						
Optical Zoom		12x					Compression	G.711a/G.711Mu/AAC/ G.726
Focus Control		Motorized					Network	
Close Focus Distance		1m (3.28ft)					Ethernet	RJ-45 (100/1000Base-T)
DORI Distance	Lens W	75m(246ft) 896m	Observe 30m(98ft) 358m	Recognize 15m(49ft) 179m	7m(23ft)		Protocol	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
	Т	(2938ft)	(1174ft)	(587ft)	(295ft)		Interoperability	ONVIF Profile S&G, API
Pan/Tilt/Rot	tation						Streaming Method	Unicast / Multicast
Pan/Tilt/Rotation	on Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°					Max. User Access	10 Users/20 Users
Intelligence							Ivida. Osei Access	NAS
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal access, Storage anomaly					Edge Storage	Local PC for instant recording Mirco SD card 128GB
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Web Viewer	IE, Chrome, Firefox, Safari
Advanced Intell	ligent Functions						Management Software	Smart PSS, DSS, DMSS
Video		,					Smart Phone	IOS, Android
Compression		H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)					Certifications	
Smart Codec		Support H.265+/H.264+					Certifications	CE (EN 60950:2000) UL:UL60950-1
Streaming Capa	ability	3 Streams					Interface	FCC: FCC Part 15 Subpart B
Resolution		1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280x720)/ D1(704×576/704x480) / VGA(640x480)/ CIF(352×288/342x240)					Video Interface	1 Port (BNC,1Vp-p,75Ω)
Frame Rate		VGA(640x480)/ CIF(352x288/342x240) Main Stream: 1080P(1~50/60fps)					Audio Interface	1/1 channel In/Out
		Sub Stream 1: D1 (1 ~ 25/30fps)					RS485	1 Port
		Sub Stream 2: 1080P(1~25fps)					Alarm	2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC

Electrical

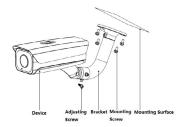
Power Supply	DC12V, PoE+(IEEE 802.3at)(Class 4)
Power Consumption	< 15.5W
Environmental	
Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	436.5mm×124.3mm×238.3mm(17.19"×4.89"×9.36")
Net Weight	1.84Kg (2.29lb)
Gross Weight	3.10Kg (6.82lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HFW8232EP-Z12- IRA	2MP Starlight IR Bullet Network Camera,PAL				
2MP camera	DH-IPC- HFW8232EN-Z12- IRA	2MP Starlight IR Bullet Network Camera,NTSC				
Zivir Calliela	IPC-HFW8232EP- Z12-IRA	2MP Starlight IR Bullet Network Camera,PAL				
	IPC-HFW8232EN- Z12-IRA	2MP Starlight IR Bullet Network Camera,NTSC				

Installation





Dimensions (mm/inch)

