

DH-IPC-HFW8331E-ZE

3MP WDR IR Bullet Network Camera





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. In addition, IP67, IK10 and heater compliance ensure the series can be applied in a harsher environment.

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 0.005lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Ultra WDR

Standard WDR/HDR camera can provide 120dB dynamic range, However, for some scenes with wider contrast range, 120dB is slightly insufficient. By adopting the latest technology, Dahua Cameras can provide an amazing dynamic range up to 140dB.

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

- · 1/2.8" 3Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@3M(2048×1536)
- · WDR(140dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~13.5mm zoom lens
- \cdot Max. IR LEDs Length 50m
- · Micro SD memory, IP67, IK10, PoE+



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.

Environmental & Protection

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting \pm 25% input voltage tolerance, this camera suits even 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 complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.)



Ultra Series | DH-IPC-HFW8331E-ZE

Technical Specification

Camera					
Image Sensor		1/2.8"3Mega	pixel progress	ive scan CMO	S
Effective Pixels		2048(H)x1536(V)			
RAM/ROM		1024MB/128	MB		
Scanning System		Progressive			
Electronic Shutt		Auto/Manual	, 1/3~1/1000	00s	
Minimum Illumination		0.005Lux/F1.4 (Color,1/3s,30IRE) 0.03Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 50m(164ft)			
IR On/Off Contro	ol	Auto/ Manua	I		
IR LEDs		4			
Lens					
Lens Type		Motorized /Auto Iris(HALL)			
Mount Type		Board-in			
Focal Length		2.7~13.5mm motorized			
Max. Aperture		F1.4			
Angle of View		H: 99 °~28 ° V:67 ° ~21 °			
Optical Zoom		5x			
Focus Control		Motorized			
Predictive Focus Algorithm (PFA)		Support			
Close Focus Dist	ance	0.3m(0.98ft)			
DORI	Lens W	Detect 54m(177ft)	Observe 22m(72ft)	Recognize 11m(36ft)	ldentify 5m(16ft)
Distance	Т	166m(545ft)		33m(108ft)	17m(56ft)
Pan/Tilt/Rot	ation				
Pan/Tilt/Rotatio	in Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°			
Intelligence					
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access,Storage anomaly			
IVS		Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intelli	gent Functions	Face Detection, People Counting, Heat Map			
Video					
Compression		H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)			
Smart Codec		Support H.265+/H.264+			
Streaming Capa	bility	3 Streams			
Resolution		3M(2048x1536)/1080P(1920×1080)/ 1.3M(1280x960)/720P(1280x720)/ D1(704×576/704x480)/VGA(640x480)/ CIF(352×288/342x240)			
		Main Stream: 3M(1~50/60fps) Sub Stream: D1 (1 ~ 50/60fps)			
Frame Rate					

Bit Rate ControlCBR/VBRBit RateI.264: 247: 10240kbps H.265: 147: 9216kbpsBit NateAuto(CR) / Color / B/WBit MateAuto(CR) / Color / B/WBit ChadeCat/L / WDR (140dB) / SSABit BalanceAuto/Natural/Street Lamp/Outdoor/ManualGain ControlD DNRMotion DetectionOff / On (4 Zone, Rectangle)Region of InterestOff / On (4 Zone, Rectangle)Bigston DateSuportBigtal ZoomOff / On (4 Zone, Rectangle)Digtal ZoomSuportRingOff / On (4 Zone, Rectangle)Digtal ZoomOff / On (4 Zone, Rectangle)NarorOff / On (A rea, Rectangle)Furbace MathematicOff / On (A rea, Rectangle)Probace MathematicOff / On (A rea, Rectangle)NarorOff / On (A rea, Rectangle)Probace MathematicSuport / On (A rea, Rectangle)Probace MathematicNarorFurbace MathematicNarorProbace MathematicNarorProbace MathematicNarorProbace MathematicNarorProbace MathematicNarorSuport Probace MathematicNarorProbace MathematicNaror </th <th></th> <th></th>		
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Alarm 2 channel In: 5mA 5VDC	Audio Interface	1/1 channel In/Out
Alarm	RS485	N/A
	Alarm	

Ultra Series | DH-IPC-HFW8331E-ZE

Electrical

Power Supply	DC12V, PoE+(802.3at)(Class 4)	
Power Consumption	<13W	
Environmental		
Operating Conditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH	
Storage Conditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH	
Ingress Protection	IP67	
Vandal Resistance	IK10	
Construction		
Casing	Metal	
Dimensions	273.2mm×95.0mm×95.0mm (10.76"×3.74"×3.74")	
Net Weight	1.12Kg (2.47lb)	
Gross Weight	1.52Kg (3.35lb)	

Ordering Information

Туре	Part Number	Description
3MP camera	DH-IPC- HFW8331EP-ZE	3MP WDR IR Bullet Network Camera,PAL
	DH-IPC- HFW8331EN-ZE	3MP WDR IR Bullet Network Camera,NTSC
	IPC-HFW8331EP- ZE	3MP WDR IR Bullet Network Camera,PAL
	IPC-HFW8331EN- ZE	3MP WDR IR Bullet Network Camera,NTSC
Accessories (optional)	PFA121	Junction box
	PFA152-E	Pole Mount
	LR1002	ePoE Over Coax Converter

Accessories

Optional:







PFA121 Junction box

PFA152-E Pole Mount

LR1002 ePoE Over Coax Converter

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152-E

Dimensions (mm/inch)





