

DH-IPC-HFW1831E

8MP WDR IR Mini Bullet Network Camera



- · 1/1.8" 8Megapixel progressive scan CMOS
- · H. 265&H.264 dual-stream encoding
- · 25/30fps@8MP(3840×2160)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (4mm, 6mm optional)
- · Max. IR LEDs Length 50m
- ·IP67, PoE











System Overview

The IR Megapixel Fixed camera delivers 8MP resolution with a motorized 2.8/4.0/6.0mm fixed lens.The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

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.

4K Technology

 $4 \mbox{K}$ technology as a revolutionary breakthrough in image, which enhance the expressive image of essence, allowing users to experience the best picture quality brought about by the visual feast . For the purposes of $4 \mbox{K}$ surveillance with four times the $1080 \mbox{P}$ resolution, presented to the user with more details . Under the same scenario by raising the pixels , reduce the camera cost.

Intelligent Video Analysis (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

Wide Dynamic Range (WDR)

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 50m (164ft).

Protection (IP67, wide voltage)

The camera allows for ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV 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.

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.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



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Things Sensor	Technical Specification					Day/Night	Auto(ICR) / Color / B/W	
Circle Pauls	Camera						BLC Mode	BLC / HLC / WDR(120dB)
Mode	Image Sensor		1/1.8" 8Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Progression	Effective Pixels		3840(H) x 2160(V)				Gain Control	Auto/Manual
Minimum Min	RAM/ROM		512MB/128MB				Noise Reduction	3D DNR
Reconoise Stature Speed Auto-Methods (1/46/14/2010) Auto-Methods (1/46/14/2014) Auto-Me	Scanning System		Progressive				Motion Detection	Off / On (4 7one, Rectangle)
Minimum IIII Minimum III	Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s					
SAM	Minimum Illumination		0.08Lux/F1.6(Color,1/30s,30IRE)				Electronic Image Stabilization	
R Distance Distance In Ox/Off Control Oxfo Manual In Oxfo Man	S/N Ratio		More than 50dB					
R.O./Jo Control Section Minima	IR Distance		Distance up to	50m (164ft)				
File	IR On/Off Contr	rol					Defog	N/A
Elens	IR LEDs						Digital Zoom	16x
Mount Type	Lens						Flip	0°/90°/180°/270°
Privacy Masking	Lens Type		Fixed				Mirror	Off / On
Max. Aperture	Mount Type		Board-in				Privacy Masking	Off / On (4 Area, Rectangle)
Mary	Focal Length		2.8mm (4mm, 6mm optional)				Audio	
Angle of View	Max. Aperture		F1.6					N/A
Optical Zoom N/A Focus Control Fixed	Angle of View		H: 131° (102°, 64°), V: 111° (87°, 55°)					1971
Close Focus Distance	Optical Zoom		N/A				Network	
Lens	Focus Control		Fixed				Ethernet	RJ-45 (10/100Base-T)
DORI Distance 2.8mm	Close Focus Dis			Observe	Recognize	Identify	Protocol	DHCP;DNS;DDNS;PPPOE;IPV4/V6;QoS;UPNP;NTP; Bonjou;IEEE 802.1X;Multicast;ICMP;IGMP;TLS;NF
August A		2.8mm	84m(276ft)	34m(112ft)	17m(56ft)	8m(26ft)	Interoperability	
PTZ	DORI Distance	4.0 mm	104m(341ft)	42m(138ft)	21m(69ft)	10m(33ft)		
PTZ		6.0 mm	164m(538ft)	66m(217ft)	33m(108ft)	16m(53ft)	· ·	
Edge Storage NAS Local PC for instant recording	DT7		,	,	,	, ,	Max. User Access	10 Users /20 Users
Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal access, Storage anomaly Smart PSS, DSS, DMSS		on Range	Pan:0°~355°; Tilt:0°~90°; Rotation:0°~355°				Edge Storage	
Network disconnection, IP address conflict, Illegal access, Storage anomaly Smart Phone IOS, Android	Intelligence						Web Viewer	IE, Chrome, Firefox, Safari
Access, Storage anomaly Smart Phone IOS, Android							Management Software	Smart PSS, DSS, DMSS
Video CEL (EN 60950:2000) Compression H.265/H.264H/MJPEG(Sub Stream) Certifications CE (EN 60950:2000) Smart Codec Support H.265+/H.264+ Interface Streaming Capability 2 Streams Video Interface N/A Resolution 4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/3M(2048x1536)/3M(2304×1296)/1080P(19:20x1080)/1.3M(1280x960)/720P(1280x270)/b1(704x576/704x480)/VGA(640x480)/CIF(352×288/352×240) Audio Interface N/A RS485 N/A Alarm N/A Frame Rate Electrical Bit Rate Control CBR/VBR Power Supply DC12V, PoE (IEEE802.3af)(Class 0) Bit Rate H.264:24K ~ 8192Kbps Power Consumption <7.8W	Event ingger				aaress conflic	t, illegal	Smart Phone	IOS, Android
Compression H.265/H.264H/MJPEG(Sub Stream) Certifications UL:UL60950-1 FCC: FCC Part 15 Subpart B Smart Codec Support H.265+/H.264+ Interface Streaming Capability 2 Streams Video Interface N/A 4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/ 3M(2048x1536)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480) / VGA(640×480)/CIF(352×288/352×240) Audio Interface N/A RS485 N/A Alarm N/A Frame Rate Sub Stream: D1(1~25/30fps) Electrical Bit Rate Control CBR/VBR Power Supply DC12V, PoE (IEEE802.3af)(Class 0) Rit Pate H.264:24K~8192Kbps Power Consumption <7.8W	IVS		Tripwire, Intrusion				Certifications	
Smart Codec Support H.265+/H.264+ Interface Streaming Capability 2 Streams Video Interface N/A Resolution 4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/3M(2304×1296)/1080/1.3M(2304×1296)/1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/VGA(640×480)/CIF(352×288/352×240) Audio Interface N/A RS485 N/A Main Stream: 4K (1~25/30fps) Alarm N/A Frame Rate Electrical Bit Rate Control CBR/VBR Power Supply DC12V, PoE (IEEE802.3af)(Class 0) Bit Pate H.264:24K ~ 8192Kbps Power Consumption <7.8W			U 265/U 264U	/MIDEG/Sub St	tream)		Certifications	UL:UL60950-1
Streaming Capability 2 Streams Video Interface N/A							Interfece	rec. rec rait 13 subpart b
AK(3840×2160)/6M(3072×2048)/5M(2560×1920)/ 3M(2048x1536)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704x576/704×480) / VGA(640×480)/CIF(352×288/352×240)								
Resolution 3M(2048x1536)/3M(2304x1296)/ Audio Interface N/A	Streaming Capability						Video Interface	
T20P(1280×720)/D1(704×576/704×480) / VGA(640×480)/CIF(352×288/352×240) RS485 N/A	Resolution		3M(2048x1536)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480) /				Audio Interface	N/A
Main Stream: 4K (1~25/30fps) Electrical							RS485	N/A
Frame Rate Sub Stream: D1(1~25/30fps) Bit Rate Control CBR/VBR H.264:24K~8192Kbps Power Consumption STREET Proper Consumption STREET Sub Stream: D1(1~25/30fps) Power Consumption STREET Sub Stream: D1(1~25/30fps) Power Consumption STREET Sub Stream: D1(1~25/30fps) Power Consumption STREET Sub Stream: D1(1~25/30fps) STREET Sub Stream: D1(1~25/30fps) Power Supply STREET Sub Stream: D1(1~25/30fps) S							Alarm	N/A
Bit Rate Control CBR/VBR Power Supply DC12V, PoE (IEEE802.3af)(Class 0) Bit Rate Control Power Consumption 7.8W	Frame Rate						Electrical	
	Bit Rate Control			,,,			Power Supply	DC12V, PoE (IEEE802.3af)(Class 0)
11.2CF.221/av.01021/h	Bit Rate		H.264:24K ~ 8192Kbps H.265:32K~ 8192Kbps				Power Consumption	<7.8W

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	179.9mm×69.3mm×62mm (7.08"×2.73"×2.44")
Net Weight	0.48kg (1.06lb)
Gross Weight	0.51 kg (1.12lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HFW1831EP-0280B	8MP IR Mini Bullet Network Camera, WDR, PAL			
	DH-IPC- HFW1831EN-0280B	8MP IR Mini Bullet Network Camera, WDR,NTSC			
	IPC-HFW1831EP- 0280B	8MP IR Mini Bullet Network Camera, WDR, PAL			
	IPC-HFW1831EN- 0280B	8MP IR Mini Bullet Network Camera, WDR,NTSC			
	DH-IPC- HFW1831EP-0400B	8MP IR Mini Bullet Network Camera, WDR, PAL			
8MP camera	DH-IPC- HFW1831EN-0400B	8MP IR Mini Bullet Network Camera, WDR,NTSC			
own cumera	IPC-HFW1831EP- 0400B	8MP IR Mini Bullet Network Camera, WDR,PAL			
	IPC-HFW1831EN- 0400B	8MP IR Mini Bullet Network Camera, WDR,NTSC			
	DH-IPC- HFW1831EP-0600B	8MP IR Mini Bullet Network Camera, WDR, PAL			
	DH-IPC- HFW1831EN-0600B	8MP IR Mini Bullet Network Camera, WDR,NTSC			
	IPC-HFW1831EP- 0600B	8MP IR Mini Bullet Network Camera, WDR,PAL			
	IPC-HFW1831EN- 0600B	8MP IR Mini Bullet Network Camera, WDR,NTSC			
	PFA121	Junction box			
Accessories (optional)	PFA152-E	Pole Mount			
	PFA151	Corner Mount			

Accessories

Optional:







PFA121 Junction box

PFA152-E Pole Mount

PFA151 Corner Mount

Junction Mount	Pole Mount
PFA121	PFB121+ PFA152-E
Corner Mount	
PFB121 + PFA151	

Dimensions (mm/inch)



