

Active System

DH-IPC-HFW1831E

8MP WDR IR Mini Bullet Network Camera



System Overview

The IR Megapixel Fixed camera delivers 8MP resolution with a 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

4K 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 4K surveillance with four times the 1080P 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.

- 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
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (4mm, 6mm optional)
- · Max. IR LEDs Length 50m

·IP67, PoE



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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Technical Specification

Camera	
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Camera					
Image Sensor		1/1.8" 8Megapixel progressive scan CMOS			
Effective Pixels		3840(H) x 2160(V)			
RAM/ROM		512MB/128MB			
Scanning Syste	m	Progressive			
Electronic Shutt	er Speed	Auto/Manual, 1/3(4)~1/100000s			
Minimum Illum	ination	0.003Lux/F1.6(Color,1/3s,30IRE) 0.08Lux/F1.6(Color,1/30s,30IRE) 0Lux/F1.6(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 50m (164ft)			
IR On/Off Cont	rol	Auto/ Manual			
IR LEDs		2			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8mm (4mm, 6mm optional)			
Max. Aperture		F1.6			
Angle of View		H:111°/87°/55°, V:59°/47°/30°			
Optical Zoom		N/A			
Focus Control		Fixed			
Close Focus Dis	stance	1.5m (16.4ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8mm	84m(276ft)	34m(112ft)	17m(56ft)	8m(26ft)
Doni Distance	4.0 mm	104m(341ft)	42m(138ft)	21m(69ft)	10m(33ft)
	6.0 mm	164m(538ft)	66m(217ft)	33m(108ft)	16m(53ft)
PTZ					
Pan/Tilt/Rotati	on Range	Pan:0°~355°; Tilt:0°~90°; Rotation:0°~355°			
Intelligence					
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal access, Storage anomaly			
IVS		Tripwire, Intrusion			
Video					
Compression		H.265/H.264H/MJPEG(Sub Stream)			
Smart Codec		Support H.265+/H.264+			
Streaming Capability		2 Streams			
Resolution		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)			
Frame Rate		Main Stream: 4K (1~25/30fps)			
		Sub Stream: D1(1~25/30fps)			
Bit Rate Control		CBR/VBR			
Bit Rate		H.264:24K ~ 8192Kbps H.265:32K~ 8192Kbps			

Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Support
Defog	N/A
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Audio	
Compression	N/A
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCP ;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP
Interoperability	ONVIF Profile S&G, CGI
Streaming Method	Unicast / Multicast
Max. User Access	10 Users /20 Users
Edge Storage	NAS Local PC for instant recording
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, DMSS
Smart Phone	IOS, Android
Certifications	
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Interface	
Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A
Electrical	
Power Supply	DC12V, PoE (IEEE802.3af)(Class 0)
Power Consumption	<7.8W

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Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Storage Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +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

TypePart NumberDescriptionImage: Part NumberSMP IR Mini Bullet Network Camera, WDR, PALImage: Part NumberSMP IR Mini Bullet Network Camera, WDR, NTSCImage: Part NumberPart NumberImage: Part NumberPart NumberImage: Part NumberPart NumberImage: Part NumberPart Nu	oracing			
HFW1831EP-0280BWDR, PALDH-IPC- HFW1831EP-0280B8MP IR Mini Bullet Network Camera, WDR, NTSCIPC-HFW1831EP- 0280B8MP IR Mini Bullet Network Camera, WDR, PALIPC-HFW1831EP- 0280B8MP IR Mini Bullet Network Camera, WDR, NTSCIPC-HFW1831EP- 0280B8MP IR Mini Bullet Network Camera, WDR, NTSCIPC-HFW1831EP- 0280B8MP IR Mini Bullet Network Camera, WDR, PALIPC-HFW1831EP- 0400B8MP IR Mini Bullet Network Camera, WDR, PALIPC-HFW1831EP- 0600B8MP IR Mini Bullet Network Camera, WDR, NTSCIPC-HFW1831EP- 0600B8MP IR Mini Bullet Network Camera, WDR, NTSCIPC-HFW1831EP- 0600B9MP IR Mini Bullet Network Camera, WDR, NTSCIPC-HFW1831EP- 0600B9MP IR Mini Bullet Network Camera, WDR, NTSC	Туре	Part Number	Description	
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Accessories (optional) PFA152-E Pole Mount				
(optional) PFA152-E Pole Mount		PFA121	Junction box	
PFA151 Corner Mount		PFA152-E	Pole Mount	
		PFA151	Corner Mount	

Accessories

Optional:



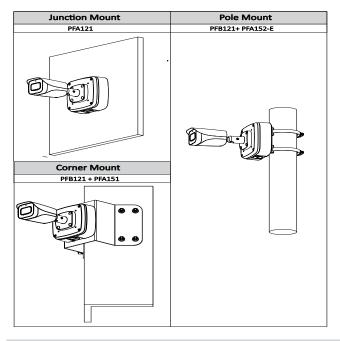




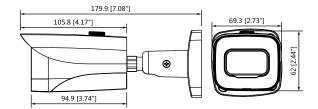
PFA121 Junction box

PFA152-E Pole Mount Cor





Dimensions (mm/inch)







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