

# 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) &
- · 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 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.

## 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.

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.



Tacketted						Day/Night	Auto(ICR) / Color / B/W
Technical Specification							
Camera						BLC Mode	BLC / HLC / WDR(120dB)
Image Sensor		1/1.8" 8Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		3840(H) x 2160(V)				Gain Control	Auto/Manual
RAM/ROM		512MB/128MB				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detection	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.003Lux/F1.6( Color,1/3s,30IRE) 0.08Lux/F1.6( Color,1/30s,30IRE) 0Lux/F1.6(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				-	
IR LEDs		2				Digital Zoom	16x
Lens						Flip	0°/90°/180°/270°
Lens Type		Fixed				Mirror	Off / On
Mount Type		Board-in				Privacy Masking	Off / On (4 Area, Rectangle)
Focal Length		2.8mm (4mm, 6mm optional)				Audio	
Max. Aperture		F1.6				Compression	N/A
Angle of View		H:111°/87°/55°, V:59°/47°/30°				Network	
Optical Zoom Focus Control		N/A				Ethernet	RJ-45 (10/100Base-T)
Close Focus Dis	tance	Fixed 1.5m (16.4ft)				Ductocal	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCP
	Lens	Detect	Observe	Recognize	Identify	Protocol	;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP
	2.8mm	84m(276ft)	34m(112ft)	-	8m(26ft)	Interoperability	ONVIF Profile S&G, CGI
DORI Distance		` '				Streaming Method	Unicast / Multicast
	4.0 mm	104m(341ft)	42m(138ft)	21m(69ft)	10m(33ft)	Max. User Access	10 Users /20 Users
	6.0 mm	164m(538ft)	66m(217ft)	33m(108ft)	16m(53ft)		NAS
PTZ						Edge Storage	Local PC for instant recording
Pan/Tilt/Rotation Range		Pan:0°~355°; Tilt:0°~90°; Rotation:0°~355°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, DMSS
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal				Smart Phone	IOS, Android
Event mage.		access, Storage anomaly				Certifications	
IVS		Tripwire, Intrus	sion			Certifications	CE (EN 60950:2000)
Video							UL:UL60950-1 FCC: FCC Part 15 Subpart B
Compression		H.265/H.264H	/MJPEG(Sub St	tream)		Interface	
Smart Codec		Support H.265+/H.264+				Video Interface	N/A
Streaming Capability		2 Streams				Audio Interface	N/A
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) /				RS485	N/A
						Alarm	N/A
		VGA(640×480)/CIF(352×288/352×240)				Electrical	
Frame Rate		Main Stream: 4		s)			DC43V D-F ((FFF003 3-4)/C)
Dit Data Co.		Sub Stream: D2	1(1~25/30fps)			Power Supply	DC12V, PoE (IEEE802.3af)(Class 0)
Bit Rate Control		CBR/VBR H.264:24K ~ 8192Kbps				Power Consumption	<7.8W
Bit Rate		H.265:32K~ 81					

# Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +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)



