

DH-IPC-HFW2431T-ZS/VFS

4MP WDR IR Bullet Network Camera



System Overview

The IR Megapixel Vari-focal camera delivers 4MP resolution with a 2.7mm \sim 13.5mm varifocal 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.

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)

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.

- · 1/3" 4Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 20fps@4M(2688×1520)&25/30fps@3M(2304×1296)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD card slot, up to 128GB
- · 2.7~13.5mm varifocal lens
- \cdot Max IR LEDs Length 60m
- · IP67, IK10(optional), PoE+



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 60m (197ft).

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.

Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Interoperability

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



Lite Series | DH-IPC-HFW2431T-ZS/VFS

Technical Specification

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4M(2688x1520)/3M(2304×1296)/1080P(19	Smart Codec		Support H.265+/H.264+				
	Streaming Capability		2 Streams				
D1(704×576/704×480)/CIF(352×288/352×240)	Resolution		20×1080)/720P(1280×720)/VGA(640×480)/				
Main Stream: 4M (1 ~ 20fps)/3M(1 ~ 25/30fps) Frame Rate	Frame Rate		Main Stream: 4M (1 ~ 20fps)/3M(1 ~ 25/30fps)				
Sub Stream: D1/CIF(1~25/30fps)			Sub Stream: D1/CIF(1 ~ 25/30fps)				
Bit Rate Control CBR/VBR	Bit Rate Control		CBR/VBR				

Bit Rate	H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps		
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		
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;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UPnP; NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;TLS		
Interoperability	ONVIF Profile S&G, API		
Streaming Method	Unicast / Multicast		
Max. User Access	10 Users / 20 Users		
Edge Storage	NAS Local PC for instant recording Micro SD Card 128GB		
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+ (IEEE 802.3at)(Class 4)		
Power Consumption	<14W(-ZS), <12W(-VFS)		

Lite Series | DH-IPC-HFW2431T-ZS/VFS

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	IK10(Optional)	
Construction		
Casing	Metal	
Dimensions	244.1mm×79mm×75.9mm (9.61"×3.11"×2.99")	
Net Weight	0.815kg (1.80lb)	
Gross Weight	1.08kg (2.38lb)	

Accessories

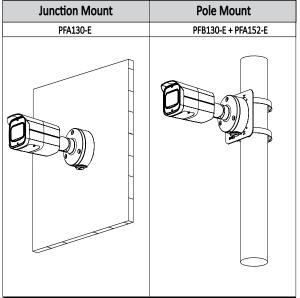
Optional:



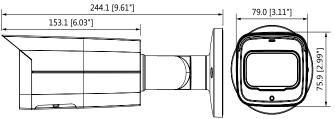


PFA130-E Junction Box

PFA152-E Pole Mount



Dimensions (mm/inch)





Туре	Part Number	Description		
	DH-IPC-HFW2431TP- ZS	4MP WDR IR Bullet Network Camera, PAL		
4MP camera	DH-IPC-HFW2431TN- ZS	4MP WDR IR Bullet Network Camera, NTSC		
	IPC-HFW2431TP-ZS	4MP WDR IR Bullet Network Camera, PAL		
	IPC-HFW2431TN-ZS	4MP WDR IR Bullet Network Camera, NTSC		
	DH-IPC-HFW2431TP- VFS	4MP WDR IR Bullet Network Camera, PAL		

Ordering Information

VFS

PFA130-E

PFA152-E

Accessories (optional)

