

DH-IPC-HFW2231T-ZS/VFS

2MP WDR IR Bullet Network Camera



System Overview

The IR Megapixel Vari-focal camera delivers 2MP 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.

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 0.006lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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.

- · 1/2.8" 2Megapixel progressive Starvis[™] CMOS
- · H.265 & H.264 dual-stream encoding
- · 25/30fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- \cdot Micro SD card slot, up to 128GB
- · 2.7~13.5mm varifocal lens
- \cdot Max IR LEDs Length 60m
- · IP67, IK10(optional), PoE+



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.

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 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.

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-HFW2231T-ZS/VFS

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Frame Rate Sub Stream: D1(1 ~ 25/30fps)	Resolution		720P(1280×720)/D1(704×576/704×480)/			
Sub Stream: D1(1 ~ 25/30fps)	Frame Rate		Main Stream: 1080P (1 ~ 25/30fps)			
Bit Rate Control CBR/VBR			Sub Stream: D2	Sub Stream: D1(1 ~ 25/30fps)		
	Bit Rate Control		CBR/VBR			

Bit Rate	H.265: 12K ~ 6400Kbps 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-HFW2231T-ZS/VFS

Environmental

Ordering Information

Туре

Part Number

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)	

Description

Accessories

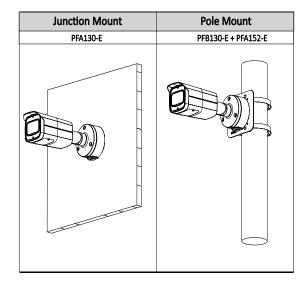
Optional:



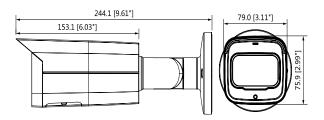


PFA130-E Junction Box

PFA152-E Pole Mount



Dimensions (mm/inch)



alhua
TECHNOLOGY

2MP camera	DH-IPC-HFW2231TP- ZS	2MP WDR IR Bullet Network Camera, PAL
	DH-IPC-HFW2231TN- ZS	2MP WDR IR Bullet Network Camera, NTSC
	IPC-HFW2231TP-ZS	2MP WDR IR Bullet Network Camera, PAL
	IPC-HFW2231TN-ZS	2MP WDR IR Bullet Network Camera, NTSC
	DH-IPC-HEW2231TP-	2MP WDR IR Bullet Network Camera

2MP camera	IF C-111 W2251111-25	NTSC .	
	DH-IPC-HFW2231TP- VFS	2MP WDR IR Bullet Network Camera, PAL	
	DH-IPC-HFW2231TN- VFS	2MP WDR IR Bullet Network Camera, NTSC	
	IPC-HFW2231TP-VFS	2MP WDR IR Bullet Network Camera, PAL	
	IPC-HFW2231TN-VFS	2MP WDR IR Bullet Network Camera, NTSC	
Accessories (optional)	PFA130-E	Junction box	
	PFA152-E	Pole mount	