

# DH-IPC-HFW2431T-ZAS/VFAS

4MP WDR IR Bullet Network Camera



- · 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
- · Max IR LEDs Length 60m
- · IP67, PoE











# **System Overview**

The IR Megapixel Vari-focal camera delivers 2MP/4MP/5MP resolution with a 2.7 mm - 13.5 mm 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 H.265+

Smart H.265+ is the optimized implementation of the H.265 codec 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 H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

### 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 ±10% 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.



Technical Specification							White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Camera							Gain Control	Auto/Manual
Image Sensor		1/3" 4Megapixel progressive CMOS					Noise Reduction	3D DNR
Effective Pixels		2688(H) x1520(V)					Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		512MB/32MB					Region of Interest	Off / On (4 Zone)
Scanning System		Progressive					Electronic Image	N/A
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Stabilization(EIS)	
		0.03Lux/F1.4( Color,1/3s,30IRE)					Smart IR	Support
Minimum Illumination		0.3Lux/F1.4( Color,1/30s,30IRE) 0Lux/F1.4(IR on)					Digital Zoom	16x
S/N Ratio		More than 50dB					Flip	0°/90°/180°/270°
IR Distance		Distance up to 60m(197ft)					Mirror	Off / On
IR On/Off Contro	ol	Auto/ Manual					Privacy Masking	Off / On (4 Area, Rectangle)
IR LEDs		4					Audio	
Lens							Compression	G.711a/ G.711Mu/ AAC/ G.726
Lens Type		Motorized(-ZS), Manual (-VFS)					Network	
Mount Type		Board-in					Ethernet	RJ-45 (10/100Base-T)
Focal Length		2.7mm~13.5mm					Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP
Max. Aperture		F1.4					Interoperability	ONVIF, PSIA, CGI
Angle of View		H:104°~28°, V:72°~20°					Streaming Method	Unicast / Multicast
Focus Control		Motorized (-ZS), Manual (-VFS)					Max. User Access	10 Users / 20 Users
Close Focus Dista	Lens	0.3m Detect	Observe	Recognize	Identify		Edge Storage	NAS Local PC for instant recording Micro SD Card 128GB
DORI Distance	W	64m(210t)	26m(85ft)	13m(43ft)	6m(20ft)		Web Viewer	IE, Chrome, Firefox, Safari
	Т	222m(728ft)	89m(292ft)	44m(144ft)	22m(72ft)		Management Software	Smart PSS, DSS, Easy4ip
PTZ							Smart Phone	IOS, Android
Pan/Tilt Range		Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°					Certifications	
Video								CE (EN 60950:2000)
Compression		H.265+/H.265/H.264+/H.264					Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capab	oility	2 Streams					Interface	
		4M(2688x1520)/(2560×1440)/ (2304x1296)/1080P(1920x1080)/					Video Interface	N/A
Resolution		SXGA(1280×1024)/1.3M(1280× 960)/720P(1280×720)/D1(704×576/704×480)/					Audio Interface	1/1 channel In/Out
		VGA(640×480)CIF(352×288/352×240)					RS485	N/A
Frame Rate		4M (1 ~ 20fps)/3M(1 ~ 25/30fps)  D1/CIF(1 ~ 25/30fps)					Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Bit Rate Control		CBR/VBR					Electrical	
		H.265: 12K ~ 8448Kbps					Power Supply	DC12V PoE (802.3af)(Class 0)
Bit Rate		H.264: 32K ~ 10240Kbps				Power Consumption	<12.6W(-ZS), <12.6W(-VFS)	
Day/Night		Auto(ICR) / Color / B/W						
BLC Mode		BLC / HLC / WDR(120dB)						

## Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	N/A

#### 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)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC-HFW2431TP- ZAS	4MP WDR IR Bullet Network Camera, PAL				
	DH-IPC-HFW2431TN- ZAS	4MP WDR IR Bullet Network Camera, NTSC				
	IPC-HFW2431TP-ZAS	4MP WDR IR Bullet Network Camera, PAL				
4MP camera	IPC-HFW2431TN-ZAS	4MP WDR IR Bullet Network Camera, NTSC				
4IVIP Camera	DH-IPC-HFW2431TP- VFAS	4MP WDR IR Bullet Network Camera, PAL				
	DH-IPC-HFW2431TN- VFAS	4MP WDR IR Bullet Network Camera, NTSC				
	IPC-HFW2431TP-VFAS	4MP WDR IR Bullet Network Camera, PAL				
	IPC-HFW2431TN- VFAS	4MP WDR IR Bullet Network Camera, NTSC				
	PFA135	Junction box				
Accessories (optional)	PFA152-E	Pole mount				
	LR1002	ePoE Over Coax Converter				

# Accessories

# Optional:







PFA135 Junction Box

PFA152-E Pole Mount

LR1002 ePoE Over Coax Converter

Junction Mount	Pole Mount
PFA135	PFA135 + PFA152-E

# Dimensions (mm/inch)



