

DH-IPC-HFW2231TP-ZAS/VFAS

2MP WDR IR Bullet Network Camera



- · 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
- 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 resolution with a 2.7mm ~ 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 multiframe 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.

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 $^{\circ}$ C to +60 $^{\circ}$ C (-22 $^{\circ}$ F to +140 $^{\circ}$ 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.



Technical Specification					Bit Rate	H.265: 12K ~ 6400Kbps H.264: 32K ~ 10240Kbps	
Camera						Day/Night	Auto(ICR) / Color / B/W
Image Sensor		1/2.8" 2Megapixel progressive CMOS				BLC Mode	BLC / HLC / WDR(120dB)
Effective Pixels		1920(H) x1080(V)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
RAM/ROM		256MB/32MB				Gain Control	Auto/Manual
Scanning System		Progressive				Noise Reduction	3D DNR
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Motion Detection	Off / On (4 Zone, Rectangle)
Minimum Illumination		0.006Lux/F1.4 0.005Lux/F1.2(Color,1/3s,30IRE) 0.05Lux/F1.4 0.04Lux/F1.2(Color,1/30s,30IRE) 0Lux/F1.4(IR on)				Region of Interest	Off / On (4 Zone)
S/N Ratio		More than50dB				Electronic Image Stabilization(EIS)	N/A
IR Distance		Distance up to 60m(197ft)				Smart IR	Support
IR On/Off Contr	ol	Auto/ Manual				Digital Zoom	16x
IR LEDs						Flip	0°/90°/180°/270°
Lens						Mirror	Off / On
Lens Type							
		Electronic Board-in				Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type						Audio	
Focal Length		2.7mm~13.5mm F1.4				Compression	G.711a/ G.711Mu/ AAC/ G.726
	Max. Aperture					Network	
Angle of View		H:106°~29°, V:57°~17°				Ethernet	RJ-45 (10/100Base-T)
Focus Control Close Focus Distance		0.3m				Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPP0E;IPv4/v6;QoS;UPnP NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP; TLS.SNMP
	Lens	Detect	Observe	Recognize	Identify	Interoperability	ONVIF Profile S&G, API
DORI Distance	W	46m(150ft)	18m(59ft)	9m(30ft)	5m(16ft)	Streaming Method	Unicast / Multicast
	Т	153m(502ft)	61m(200ft)	31m(102ft)	15m(49ft)	Max. User Access	10 Users / 20 Users
PTZ						Edea Chausan	NAS
Pan/Tilt Range		Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°				Edge Storage	Local PC for instant recording Micro SD Card 128GB
Intelligenc	Intelligence					Web Viewer	IE, Chrome, Firefox, Safari
		Motion detection, Video tampering , Scene changing				Management Software	Smart PSS, DSS, DMSS
Event Trigger		, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Smart Phone	IOS, Android
IVS		Tripwire, Intru	sion			Certifications	
Video						Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Compression		H.265/H.264H/MJPEG(Sub Stream)				Interface	
Smart Codec		Support H.265+/H.264+				Video Interface	N/A
Streaming Capa	Streaming Capability		4000\/4 == (1000 055		Audio Interface	1/1 channel In/Out
Resolution		1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				RS485	N/A 1 channel In: 5mA 5VDC
Frame Rate		Main Stream: 1080P (1 ~ 25/30fps)				Alarm	1 channel Out: 300mA 12VDC
		Sub Stream: D1(1 ~ 25/30fps)				Electrical	
Bit Rate Control		CBR/VBR				Power Supply	DC12V,PoE+ (IEEE 802.3at)(Class 4)
						Power Consumption	<14W(-ZAS), <12W(-VFAS)

Lite Series | DH-IPC-HFW2231TP-ZAS/VFAS

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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	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-HFW2231TP- ZAS	2MP WDR IR Bullet Network Camera, PAL			
	DH-IPC-HFW2231TN- ZAS	2MP WDR IR Bullet Network Camera, NTSC			
	IPC-HFW2231TP-ZAS	2MP WDR IR Bullet Network Camera, PAL			
OMB	IPC-HFW2231TN-ZAS	2MP WDR IR Bullet Network Camera, NTSC			
2MP camera	DH-IPC-HFW2231TP- VFAS	2MP WDR IR Bullet Network Camera, PAL			
	DH-IPC-HFW2231TN- VFAS	2MP WDR IR Bullet Network Camera, NTSC			
	IPC-HFW2231TP-VFAS	2MP WDR IR Bullet Network Camera, PAL			
	IPC-HFW2231TN- VFAS	2MP WDR IR Bullet Network Camera, NTSC			
A coccessio -	PFA130-E	Junction box			
Accessories (optional)	PFA152-E	Pole mount			

Accessories

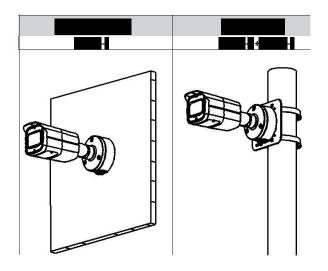
Optional:





PFA130-E Junction Box

PFA152-E Pole Mount



Dimensions (mm/inch)

