

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+











IP67

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 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.

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 $\pm 25\%$ 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.



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 than 50 dB				Electronic Image Stabilization(EIS)	N/A
IR Distance		Distance up to 60m(197ft)				Smart IR	Support
IR On/Off Contro	ol	Auto/ Manual				Digital Zoom	16x
IR LEDs		4				Flip	0°/90°/180°/270°
Lens						Mirror	Off/On
Lens Type		Electronic				Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type		Board-in				Audio	
Focal Length		2.7mm~13.5mm				Compression	G.711a/G.711Mu/AAC/G.726
Max. Aperture		F1.4				Network	
Angle of View		H:106°~29°, V:57°~17°				Ethernet	RJ-45 (10/100Base-T)
Focus Control		Fixed				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;
Close Focus Distance		0.3m				Interoperability	TLS ONVIF Profile S&G, API
	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
DORI Distance	W	46m(150ft)	18m(59ft)	9m(30ft)	5m(16ft)	Max. User Access	10 Users / 20 Users
	Т	153m(502ft)	61m(200ft)	31m(102ft)	15m(49ft)	Max. User Access	NAS
PTZ		Danino260° Tiltino 00° Datationino 260°				Edge Storage	Local PC for instant recording Micro SD Card 128GB
Pan/Tilt Range	_	Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence	2	Motion detection Video tomposing Scane share:				Management Software	Smart PSS, DSS, DMSS
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly				Smart Phone	IOS, Android
IVS		Tripwire, Intrusion				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 Capability		2 Streams				Audio Interface	1/1 channel In/Out
Resolution		1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/				RS485	N/A
		VGA(640×480)/CIF(352×288/352×240) Main Stream: 1080P (1 ~ 25/30fps)				Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Frame Rate		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 \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	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			
2142	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			
Accessories	PFA130-E	Junction box			
(optional)	PFA152-E	Pole mount			

Accessories

Optional:





PFA130-E Junction Box

PFA152-E Pole Mount

Junction Mount	Pole Mount
PFA130-E	PFB130-E + PFA152-E

Dimensions (mm/inch)



