

DH-IPC-HFW2231R-ZS/VFS-IRE6

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
- \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 resolution with a 2.7~13.5mm 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 ±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						Day/Night	Auto(ICR) / Color / B/W
Camera						BLC Mode	BLC / HLC / WDR(120dB)
Image Sensor		1/2.8" 2Megapixel progressive CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		1920(H) x1080(V)				Gain Control	Auto/Manual
RAM/ROM		256MB/32MB					
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(Color,1/3s,30IRE) 0.05Lux/F1.4(Color,1/30s,30IRE) 0Lux/F1.4(IR on)				Region of Interest Electronic Image	Off / On (4 Zone) N/A
S/N Ratio		More than 50 dB				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°
		4				Mirror	Off / On
Lens		Floatrania				Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Electronic				Audio	
Mount Type		Board-in				Compression	N/A
Focal Length		2.7mm~13.5mm				Network	
Max. Aperture		F1.4				Ethernet	RJ-45 (10/100Base-T)
Angle of View		H:106°~29°, V:57°~17°					HTTP;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP;
Focus Control Close Focus Dist	ance	Fixed				Protocol	FTP;DHCP;DNS;DDNS;PPPOE;IPV4/V6;QOS;UPnP; NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;TLS;SNMP
Close Focus Dist		0.2m				Interoperability	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
PTZ	Т	153m(502ft)	61m(200ft)	31m(102ft)	15m(49ft)	Edge Storage	NAS 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				Management Software	Smart PSS, DSS, DMSS		
		Motion detection, Video tampering, Scene changing,				-	IOS, Android
Event Trigger		Network disconnection, IP address conflict, Illegal access, Storage anomaly				Smart Phone	IUS, 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	N/A
Resolution		1080P(1920x1080)/1.3M(1280×960)/720P(128 0×720)/D1(704×576/704×480)/VGA(640×480) CIF(352×288/352×240)				RS485	N/A
		Main Stream: 1080P (1 ~ 25/30fps)				Alarm	N/A
Frame Rate		Sub Stream: D1(1 ~ 25/30fps)				Electrical	
Bit Rate Control		CBR/VBR				Power Supply	DC12V, PoE (IEEE802.3af)(Class 0)
Bit Rate		H.265: 12K ~ 6400Kbps H.264: 32K ~ 10240Kbps				Power Consumption	<12.9W(-ZS), <10.9W(-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	N/A

Construction

Casing	Metal
Dimensions	72mm×80mm×212.8mm (2.8" x 3.1"x 8.4")
Net Weight	0.685Kg (1.51lb)
Gross Weight	0.86Kg (1.90lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC-HFW2231RP- ZS-IRE6	2MP WDR IR Bullet Network Camera, PAL				
	DH-IPC-HFW2231RN- ZS-IRE6	2MP WDR IR Bullet Network Camera, NTSC				
	IPC-HFW2231RP- ZS-IRE6	2MP WDR IR Bullet Network Camera, PAL				
2MP camera	IPC-HFW2231RN- ZS-IRE6	2MP WDR IR Bullet Network Camera, NTSC				
ZIVIP CAITIELA	DH-IPC-HFW2231RP- VFS-IRE6	2MP WDR IR Bullet Network Camera, PAL				
	DH-IPC-HFW2231RN- VFS-IRE6	2MP WDR IR Bullet Network Camera, NTSC				
	IPC-HFW2231RP- VFS-IRE6	2MP WDR IR Bullet Network Camera, PAL				
	IPC-HFW2231RN- VFS-IRE6	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	PFA130-E+ PFA152-E

Dimensions (mm/inch)



