

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/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.

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 $\pm 10\%$ 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.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Sp	pecification				
Camera					
Image Sensor		1/2.8" 2Megapixel progressive CMOS			
Effective Pixels		1920(H) x1080(V)			
RAM/ROM		256MB/32MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.006Lux/F1.4(Color,1/3s,30IRE) 0.05Lux/F1.4(Color,1/30s,30IRE) 0Lux/F1.4(IR on)			
S/N Ratio		More than 50 dB			
IR Distance		Distance up to 60m(197ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		4			
Lens					
Lens Type		Electronic			
Mount Type		Board-in			
Focal Length		2.7mm~13.5mm			
Max. Aperture		F1.4			
Angle of View		H:106°~29°, V:57°~17°			
Focus Control		Fixed			
Close Focus Distance		0.2m			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	46m(150ft)	18m(59ft)	9m(30ft)	5m(16ft)
	Т	153m(502ft)	61m(200ft)	31m(102ft)	15m(49ft)
PTZ					
Pan/Tilt Range		Pan:0° ~360° ;	Filt:0° ~90° ;Rc	otation:0° ~360	O°
Intelligence					
IVS		Tripwire, Intrus	sion		
Video					
Compression		H.265+/H.265/	/H.264+/H.264	ļ	
Streaming Capak	pility	2 Streams			
Resolution		1080P(1920x1080)/SXGA(1280×1024)/1.3M(1280× 960)/720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)CIF(352×288/352×240)			
		1080P (1 ~ 25/30fps)			
Frame Rate		D1/CIF(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 / WD	PR(120dB)		

White Balance	Auto/Natural/Street Lamp/Outdoor/Manual			
Gain Control	Auto/Manual			
Noise Reduction	3D DNR			
Motion Detetion	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;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP			
Interoperability	ONVIF, PSIA, CGI			
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, Easy4ip			
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 (802.3af)(Class 0)			
Power Consumption	<11.4W(-ZS), <9.09W(-VFS)			

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
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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			
2MP camera	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			
	IPC-HFW2231RN- ZS-IRE6	2MP WDR IR Bullet Network Camera, NTSC			
	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 (optional)	PFA130-E	Junction box			
	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)



