

# DH-IPC-HFW2431R-ZS/VFS-IRE6

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
- · 2.7~13.5mm varifocal lens
- · Max IR LEDs Length 60m
- · IP67, PoE











# **System Overview**

The IR Megapixel Vari-focal Bullet camera delivers 4MP resolution with a motorized 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**

## True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens

## Regions of interest

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas

#### Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting 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).

#### Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

#### 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.

#### Protection

Supporting  $\pm 10\%$  input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

## Interoperability

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

#### HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity , optimize settings specific contents include : Improve compression efficiency , improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay , reduce complexity , etc



,	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(4)~1/100000s				Stabilization(EIS)	N/A
,		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 45dB				Flip	0°/90°/180°/270°
IR Distance		Distance up to 60m(197ft)				Mirror	Off / On
IR On/Off Control		Auto/ Manual				Privacy Masking	Off / On (4 Area, Rectangle)
IR LEDs		4				Audio	
Lens						Compression	N/A
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;DHC;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP
Max. Aperture		F1.4					
Angle of View		H:104°~28°, V:55°~16°				Interoperability	ONVIF, PSIA, CGI
Focus Control		Motorized(-ZS), Manual(-VFS)				Streaming Method	Unicast / Multicast
Close Focus Distance		0.2m				Max. User Access	20 Users
	Lens	Detect	Observe	Recognize	Identify	Edge Storage	NAS
DORI Distance	W	64m(210t)	26m(85ft)	13m(43ft)	6m(20ft)	Web Viewer	Local PC for instant recording  IE, Chrome, Firefox, Safari
	т	222m(728ft)	89m(292ft)	44m(144ft)	22m(72ft)	Management Software	Smart PSS, DSS,DMSS
PTZ							
Pan/Tilt Range		Pan:0° ~355° ;Tilt:0° ~90° ;Rotation:0° ~330°				Smart Phone	IOS, Android
Video			, ,			Certifications	CF (FN C00F0 2000)
Compression		H 265+/H 265	5/H 264+/H 2	64		Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capabi	ility	H.265+/H.265/H.264+/H.264				Interface	rec. rec rait 13 suppart B
Streaming capabi	cy	2 Streams (2688x1520)/(2560×1440)/				Video Interface	N/A
Resolution		(2304x1296)/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)				Audio Interface	N/A
						RS485	N/A
Frame Rate		4M (1 ~ 20fps)/3M(1 ~ 25/30fps)				Alarm	N/A
		D1/CIF(1 ~ 25/30fps)				Electrical	19/1
Bit Rate Control		CBR/VBR				Power Supply	DC12V PoE (802.3af)(Class 0)
Bit Rate		H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps				Power Consumption	<11.74W(-ZS), <9.09W(-VFS)
S.c nacc	Day/Night		Auto(ICR) / Color / B/W				
		Auto(ICR) / Co	olor / B/W				

# 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			
	DH-IPC-HFW2431RP- ZS-IRE6	4MP WDR IR Bullet Network Camera, PAL			
	DH-IPC-HFW2431RN- ZS-IRE6	4MP WDR IR Bullet Network Camera, NTSC			
	IPC-HFW2431RP- ZS-IRE6	4MP WDR IR Bullet Network Camera, PAL			
4MP camera	IPC-HFW2431RN- ZS-IRE6	4MP WDR IR Bullet Network Camera, NTSC			
4IVIP Camera	DH-IPC-HFW2431RP- VFS-IRE6	4MP WDR IR Bullet Network Camera, PAL			
	DH-IPC-HFW2431RN- VFS-IRE6	4MP WDR IR Bullet Network Camera, NTSC			
	IPC-HFW2431RP- VFS-IRE6	4MP WDR IR Bullet Network Camera, PAL			
	IPC-HFW2431RN- VFS-IRE6	4MP WDR IR Bullet Network Camera, NTSC			
Accessories	PFA135	Junction box			
(optional)	PFA150	Pole mount			

# Accessories

# Optional:



Junction Mount	Pole Mount
PFA135	PFB135 + PFA150

# Dimensions (mm/inch)



