

# DH-IPC-HFW2421R-ZS/VFS-IRE6

4MP WDR IR Bullet Network Camera



- · 1/3" 4Megapixel progressive CMOS
- · H.264+ & H.264 dual-stream encoding
- · 20fps@4M(2688x1520) & 25/30fps@3M(2304×1296)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD card slot, up to 1286B
- · 2.7~12mm 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 - 12 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 (a) applications with fluctuating lighting conditions, delivering of images during the day and automatically switching to monochange 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 intages 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.

ladder, or spending time away from the office

#### Image flip

Capturing unnecessary data such as surrounding hallway walls can indexe storage requirements without any added value. The image flip teature 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

### Smart H.264+

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.



<b>Technical Specification</b>			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	256M/16M		Region of Interest	Off / On (4 Zone)
Scanning System	Progressive		Electronic Image Stabilization(EIS)	N/A
Minimum Illumination	0.1Lux/F1.4(Color), 0Lux/F1.4(IR on)		Smart IR	Support
S/N Ratio	More than 50dB		Digital Zoom	16x
IR Distance	Distance up to 60m(197ft)		Flip	0°/90°/180°/270°
IR On/Off Control	Auto/ Manual		Mirror	off / On
IR LEDs	4		Privacy Masking	Off / On (4 Area, Rectangle)
Lens			Audio	
Lens Type	Motorized(-ZS),Manual(-VFS)		Compression	N/A
Mount Type	Board-in		Network Network	
Focal Length	2.7mm~12mm		Ethernet (	RJ-45 (10/100Base-T)
Max. Aperture	F1.4			HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;
Angle of View	H:100°~35°, V:54°~20°		Protocol	DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP;IGMP;
Focus Control	Auto (-ZS), Fixed(-VFS)		Interoperability	ONVIF, PSIA, CGI
Close Focus Distance	0.3m	NO.	Streaming Method	Unicast / Multicast
PTZ			Max. User Access	10 Users/20 Users
Pan/Tilt Range	Pan:0° ~360 °; Tilt:0° ~90°; Rotation:0° ~360°		Wax. User Access	NAS(Network Attached Storage)
Video			Edge Storage	Local PC for instant recording Micro SD Card 128GB
Compression	H.264+/H.264		Web Viewer	IE, Chrome, Firefox, Safari
Streaming Capability	2 Streams		Management Software	Smart PSS, DSS,Easy4ip
Resolution	4M(2688×1520)/3M(2304(1396)/ 1080P(1920x1080)/1.3M(1380x960)/ 720P(1280×720)/D1(704×576/704×480)/		Smart Phone	IOS, Android
	CIF(352×288/352×240)		Certifications	
Frame Rate	4M(1~20fps)/3M(1~25/30fps) D1/CIF(1~25/30fps)		Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Bit Rate Control	CBRABR		Interface	
Bit Rate	(254:24K ~ 8192Kbps		Video Interface	N/A
Day/Night	Auto(ICR) / Color / B/W		Audio Interface	N/A
BLC Mode	BLC / HLC / WDR(120dB)		RS485	N/A
	,		Alarm	N/A
Bit Rate  Day/Night  Auto(ICR) / Color / B/W  BLC / HLC / WDR(120dB)			Electrical	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			Power Supply	DC12V PoE (802.3af)(Class 0)

Power Consumption

<12.95W

#### Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A

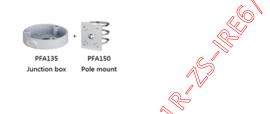
#### Construction

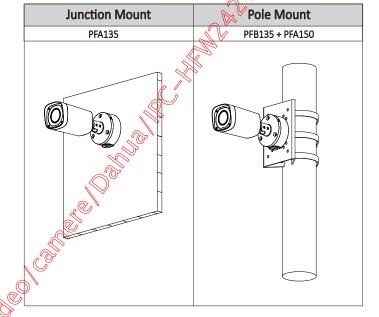
Casing	Metal
Dimensions	72mm×80mm×212.8mm ((2.8" x 3.1"x 8.4"))
Net Weight	0.685Kg (1.51lb)
Gross Weight	0.86Kg (1.90lb)

#### **Ordering Information** Part Number Type Description DH-IPC-HFW2421RP-4MP WDR IR Bullet Network Camera, ZS-IRE6 DH-IPC-HFW2421RN-4MP WDR IR Bullet Network Camera, ZS-IRE6 IPC-HFW2421RP-4MP WDR IR Bullet Network Camera, ZS-IRE6 IPC-HFW2421RN-4MP WDR IR Bullet Network Camera, ZS-IRE6 NTSC 4MP camera DH-IPC-HFW2421RP-4MP WDR IR Bullet Network Came VFS-IRE6 4MP WDR IR Bullet Network amera, DH-IPC-HFW2421RN-NTSC VFS-IRE6 IPC-HFW2421RP-4MP WDR IR Bullet Network Camera, VFS-IRE6 4MP WP Bullet Network Camera, IPC-HFW2421RN-NTSC VFS-IRE6 PFA135 unction box Accessories (optional) Pole mount

#### Accessories

# Optional:





# Dimensions (mm/inch)

