

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
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD card slot, up to 128GB
- · 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 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.

ladder, or spending time away from the office

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

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.



Technical S _I	pecification				
Camera					
Image Sensor		1/3" 4Megapixel progressive CMOS			
Effective Pixels		2688(H) x152	0(V)		
RAM/ROM		256M/16M			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s			
Minimum Illumination		0.1Lux/F1.4(Color), 0Lux/F1.4(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up t	o 60m(197ft)		
IR On/Off Control		Auto/ Manua	I		
IR LEDs		4			
Lens					
Lens Type		Motorized(-ZS), Manual (-VFS)			
Mount Type		Board-in			
Focal Length		2.7mm~12mm			
Max. Aperture		F1.4			
Angle of View		H:100°~35°, V:54°~20°			
Focus Control		Auto (-ZS),Fixed(-VFS)			
Close Focus Distance		0.3m			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	68m(223ft)	27m(89ft)	14m(49ft)	7m(23ft)
	Т	193m(633ft)	77m(253ft)	39m(128ft)	19m(62ft)
PTZ					
Pan/Tilt Range		Pan:0° ~360 °; Tilt:0° ~90°; Rotation:0° ~360°			
Video					
Compression		H.264+/H.264			
Streaming Capability		2 Streams			
Resolution		4M(2688×1520)/3M(2304×1296)/ 1080P(1920x1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480) / CIF(352×288/352×240)			
Frama Data		4M(1~20fps)/3M(1~25/30fps)			
Frame Rate		D1/CIF(1 ~ 25/30fps)			
Bit Rate Control		CBR/VBR			
Bit Rate		H264:24K ~ 8192Kbps			
Day/Night		Auto(ICR) / Color / B/W			
BLC Mode					

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;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP; DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP;IGMP;			
Interoperability	ONVIF, PSIA, CGI			
Streaming Method	Unicast / Multicast			
Max. User Access	10 Users/20 Users			
Edge Storage	NAS(Network Attached Storage) 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) UI: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	<12.95W			

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		
4MP camera	DH-IPC-HFW2421RP- ZS-IRE6	4MP WDR IR Bullet Network Camera, PAL		
	DH-IPC-HFW2421RN- ZS-IRE6	4MP WDR IR Bullet Network Camera, NTSC		
	IPC-HFW2421RP- ZS-IRE6	4MP WDR IR Bullet Network Camera, PAL		
	IPC-HFW2421RN- ZS-IRE6	4MP WDR IR Bullet Network Camera, NTSC		
	DH-IPC-HFW2421RP- VFS-IRE6	4MP WDR IR Bullet Network Camera, PAL		
	DH-IPC-HFW2421RN- VFS-IRE6	4MP WDR IR Bullet Network Camera, NTSC		
	IPC-HFW2421RP- VFS-IRE6	4MP WDR IR Bullet Network Camera, PAL		
	IPC-HFW2421RN- VFS-IRE6	4MP WDR IR Bullet Network Camera, NTSC		
Accessories (optional)	PFA135	Junction box		
	PFA150	Pole mount		

Accessories

Optional:



Junction Mount	Pole Mount	
PFA135	PFB135 + PFA150	

Dimensions (mm/inch)



