

DH-IPC-HDBW2421R-ZS/VFS

4MP WDR IR Dome Network Camera



System Overview

The IR Megapixel Vari-focal Dome 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 30m (98ft).

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.

- · 1/3" 4Megapixel progressive CMOS
- · H.264+ & H.264 dual-stream encoding
- · 20fps@4M(2688×1520) &25/30fps@2M(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
- · 2.7~12mm varifocal lens
- · Max IR LEDs Length 30m
- · IP67, IK10, PoE













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

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust to IP67 standards, making it suitable for indoor or outdoor environments. With its IK10 rated impact resistant design, the camera provides maximum durability against vandals making it capable of withstanding the equivalent of 55 kg (120lbs) of force.

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.



Canic norm 1/3 * Major in Provincia 1/3	Technical Specification						White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Marie Reduction 10 DNR								
Processor			1/3" 4Meganixel progressive CMOS					
Raming Synthesis Progressive Progress	-							
Progressive								
Simple		n						
Since Sin							_	N/A
Polgrai Deptil	·						Smart IR	Support
Rip Distance							Digital Zoom	16x
Mirror							Flip	0°/90°/180°/270°
RLEDS		ol					Mirror	Off / On
Lens Type							Privacy Masking	Off / On (4 Area, Rectangle)
Motorized ZS Manual(-VFS)							Audio	
Network				2)	0)		Compression	N/A
Ethernet				s),Manual(-VF	S)		Network	
Max. Aperture	Mount Type						Ethernet	RJ-45 (10/100Base-T)
Angle of View	-						Protocol	DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;
Close Focus Distance Detect Diserve Recognize Identify Identify Tm(23ft) Tm(23ft)	Angle of View		H:100°~35°, V:54°~20					
Close Focus Distance Q.3m	Focus Control		Motorized (-ZS), Manual (-VFS)					
Delect	Close Focus Distance		0.3m					
DORI Distance W 68m(223ft) 27m(89ft) 14m(49ft) 7m(23ft) 19m(62ft)		Lens	Detect	Observe	Recognize	Identify	Max. User Access	10 Users/20 Users
PTZ Pan/Tilk Range Pan:0° ~355°; Tilit:0° ~75°; Rotation:0° ~355° Management Software Smart PSS, DSS, Easy4ip Certifications Certifications Ut. UL.060950-1 FCC: FCC Part 15 Subpart B N/A Audio Interface N/A N/A Audio Interface N/A	DORI Distance						Edge Storage	Local PC for instant recording
Pan/Tilt Range Pan:0° ~355°; Tilt:0° ~75°; Rotation:0° ~355° Management Software Smart PSS, DSS,Easy4ip Video Compression H.264+/H.264 Certifications CE (EN 60950:2000) UI:UI:60950-1 FCC: FCC Part 15 Subpart B Resolution 4M(2688×1520)/3M(2048×1536) (2304×1296)/1080P(1920x1080)/720P(1280x720) (2304×1296)/1080P(1920x1080)/720P(1280x720) (2100x120) (2304×1296)/1080P(1920x1080)/720P(1280x720) (2100x120) (210	DT7	1	193111(03311)	77111(25511)	39111(12011)	19111(0211)	Web Viewer	IE, Chrome, Firefox, Safari
Video Smart Phone IOS, Android Compression H.264+/H.264 Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Resolution 4M(2688x1520)/3M(2048x1536) (2304x1296)/1080P(1920x1080)/720P(1280x720) (2304x1296)/720P(1280x720) (2304x1296)/720P(1280x720) (2304x1296)/720P(1280x20) (2304x1296)/720P(1280x20) (2304x1296) (DaniO° ~2EE°	.Til+.∩° ~7E° .c	otation.0° ~20	= F °	Management Software	Smart PSS, DSS,Easy4ip
Compression H.264+/H.264 Certifications Streaming Capability 2 Streams Certifications CE (EN 60950:2000) UI:UI60950-1 FCC: FCC Part 15 Subpart B Resolution 4M(2688x1520)/3M(2048x1536) (2304x1296)/1080P(1920x1080)/720P(1280x720) /D1(704x576/704x480)/CIF(352x288/352x240) Interface Frame Rate 4M(1 ~ 20fps)/2M (1 ~ 25/30fps) Video Interface N/A Bit Rate Control CBR/VBR RS485 N/A Bit Rate H264:24K ~ 8192Kbps Alarm N/A Day/Night Auto(ICR) / Color / B/W Electrical BLC Mode BLC / HLC / WDR(120dB) Power Supply DC12V PDE (802.3af)(Class 0)			Pall.U 333	,11111.0 /3 ,5	otation.0 3.	33	Smart Phone	IOS, Android
Streaming Capability 2 Streams Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Resolution 4M(2688×1520)/3M(2048×1536) (2304×1296)/1080P(1920x1080)/720P(1280×720) /D1(704×576/704×480)/CIF(352×288/352×240) Interface Frame Rate 4M(1 ~ 20fps)/2M (1 ~ 25/30fps) Video Interface N/A Bit Rate Control CBR/VBR RS485 N/A Bit Rate H264:24K ~ 8192Kbps Alarm N/A Day/Night Auto(ICR) / Color / B/W Electrical BLC Mode BLC / HLC / WDR(120dB) Power Supply DC12V PoE (802.3af)(Class 0)			H 2641/H 26/	1			Certifications	
Resolution (2304×1296)/1080P(1920×1080)/720P(1280×720) /D1(704×576/704×480)/CIF(352×288/352×240) Interface Frame Rate 4M(1 ~ 20fps)/2M (1 ~ 25/30fps) Video Interface N/A Bit Rate Control CBR/VBR RS485 N/A Bit Rate H264:24K ~ 8192Kbps Alarm N/A Day/Night Auto(ICR) / Color / B/W Electrical BLC Mode BLC / HLC / WDR(120dB) Power Supply DC12V PoE (802.3af)(Class 0)			·				Certifications	UL:UL60950-1
Frame Rate	Resolution		(2304×1296)/1080P(1920x1080)/720P(1280×720)				Interface	
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 BLC / HLC / WDR(120dB) Audio Interface N/A RS485 N/A Alarm N/A Flectrical Power Supply DC12V PoE (802.3af)(Class 0)					•	2×24U)	Video Interface	N/A
Bit Rate Control CBR/VBR RS485 N/A Bit Rate H264:24K~8192Kbps Alarm N/A Day/Night Auto(ICR) / Color / B/W Electrical Power Supply DC12V PoE (802.3af)(Class 0)	Frame Rate				0193)		Audio Interface	N/A
Alarm N/A	Bit Rate Control						RS485	N/A
Electrical							Alarm	N/A
Power Supply DC12V PoE (802.3af)(Class 0) BLC Mode BLC / HLC / WDR(120dB)							Electrical	
							Power Supply	DC12V PoE (802.3af)(Class 0)
rower Consumption 53.75w	BLC Mode		BLC/HLC/W	DR(120dB)			Power Consumption	<9.75W

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	IK10

Construction

Casing	Metal
Dimensions	ф122mm×88.9mm(4.80''x3.50'')
Net Weight	0.4Kg (0.88lb)
Gross Weight	0.54Kg(1.19lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HDBW2421RP-ZS	4MP WDR IR Dome Network Camera, PAL				
	DH-IPC- HDBW2421RN-ZS	4MP WDR IR Dome Network Camera, NTSC				
	IPC-HDBW2421RP-ZS	4MP WDR IR Dome Network Camera, PAL				
48.40	IPC-HDBW2421RN-ZS	4MP WDR IR Dome Network Camera, NTSC				
4MP camera	DH-IPC- HDBW2421RP-VFS	4MP WDR IR Dome Network Camera, PAL				
	DH-IPC- HDBW2421RN-VFS	4MP WDR IR Dome Network Camera, NTSC				
	IPC-HDBW2421RP- VFS	4MP WDR IR Dome Network Camera, PAL				
	IPC-HDBD2421RN- VFS	4MP WDR IR Dome Network Camera, NTSC				
	PFA137	Junction box				
Accessories	PFB203W	Wall mount				
(optional)	PFA152	Pole mount				
	PFB200C	In-celling Mount				

Accessories

Optional:









PFA137 Junction Box

PFB203W Wall Mount

PFA152 Pole Mount

PFB200C In-ceiling Mount

Junction Mount	Inceiling Mount
PFA137	PFB200C
Wall Mount	Pole Mount
PFB203W	PFB203W + PFA152

Dimensions (mm/inch)



