

DH-IPC-HDBW4631R-ZS

6MP WDR IR Dome Network Camera



- 1/3" 6Megapixel progressive CMOS · H.265 & H.264 dual-stream encoding · 25fps@6M(3072×2048)&25/30fps@6M(3072×2048)
- WDR(50dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- Micro SD card slot, up to 128GB
- 2.7~13.5mm varifocal lens Motorized lens
- Max IR LEDs Length 50m
- IP67, IK10, PoE



System Overview

The IR Megapixel Vari-focal camera delivers 6MP resolution with a 2.7mm ~13.5mm 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 Codec (H.265 & H.264)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) 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 Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

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 (50dB) 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 30m (98ft).

Protection (IP67, IK10, wide voltage)

The camera allows for $\pm 25\%$ 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) and impact tests (IK10), The camera complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.)

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.

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.

Interoperability

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

Technical Specification								
Camera							Day/Night	
							Auto(ICR)/Color/B/W	
							BLC Mode	
							BLC/HLC/WDR(120dB)	
							White Balance	
							Auto/Natural/Street Lamp/Outdoor/Manual	
							Gain Control	
							Auto/Manual	
							Noise Reduction	
							3D DNR	
							Motion Detection	
							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;IEEE802.1x;Multicast;ICMP;IGMP;TLS;RTCP	
							Interoperability	
							ONVIF, PSIA, CGI;GB/T28181	
							Streaming Method	
							Unicast / Multicast	
							Max. User Access	
							20 Users	
							Edge Storage	
							NAS Local PC for instant recording Micro SD Card 128GB	
							Web Viewer	
							IE, Chrome, Firefox, Safari	
							Management Software	
							Smart PSS, GDMSS,IDMSS, 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	
							<13.2W	

Technical Specification						
Camera						
Image Sensor	1/2.9" 6Megapixel progressive scan CMOS					
Effective Pixels	3072(H) x 2048(V)					
RAM/ROM	512MB/32MB					
Scanning System	Progressive					
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s					
Minimum Illumination	0.02Lux/F1.4(Color,1/3s,30IRE) 0.3Lux/F1.4(Color,1/30s,30IRE) 0Lux/F1.4(IR on)					
S/N Ratio	More than 50dB					
IR Distance	Distance up to 50m(98ft)					
IR On/Off Control	Auto/ Manual					
IR LEDs	2					

Lens						
Lens Type	Motorized Zoom,Auto focus					
Mount Type	Board-in					
Focal Length	2.7~13.5mm					
Max. Aperture	F1.6~3.13					
Angle of View	2.8mm H:104°~28°, 3.6mm V:72.1°~20.1°					
Focus Control	Auto					
Close Focus Distance	0.3m					
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)	
	T	222m(728ft)	89m(292ft)	44m(144ft)	22m(72ft)	

PTZ						
Pan/Tilt Range	N/A					

Intelligence						
Event Trigger	Tripwire, Intrusion, Object Abandoned/ Missing					
IVS	Tripwire, Intrusion					

Video						
Compression	H.265/H.264/MJPEG					
Smart Codec	Support H.265/h.265					
Streaming Capability	3 Streams					
Resolution	Main(3072×2048@20fps ,Sub(704×576@20fps),Third(1280×720@6fps) 60Hz: Main(3072×2048@20fps) Sub(704×480@20fps),Third(1280×720@7fps)					
Frame Rate	Main Stream: 4M (1 ~ 20fps)/3M(1 ~ 25/30fps)					
	Sub Stream: D1(1 ~ 20/25fps)					
Bit Rate Control	CBR/VBR					
Bit Rate	H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps					

Day/Night	Auto(ICR)/Color/B/W
BLC Mode	BLC/HLC/WDR(120dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	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;IEEE802.1x;Multicast;ICMP;IGMP;TLS;RTCP
Interoperability	ONVIF, PSIA, CGI;GB/T28181
Streaming Method	Unicast / Multicast
Max. User Access	20 Users
Edge Storage	NAS Local PC for instant recording Micro SD Card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, GDMSS,IDMSS, Easy4ip
Smart Phone	IOS, Android

Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
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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	<13.2W

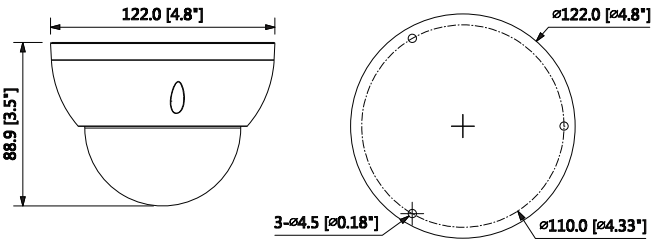
Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	φ122mm×88.9mm(4.80"x3.50")
Net Weight	0.4Kg (0.88lb)
Gross Weight	0.54Kg(1.19lb)

Dimensions (mm/inch)



Accessories

Optional:



Junction Mount	Inceiling Mount
PFA137	PFB200C
Wall Mount	Pole Mount
PFB203W	PFB203W + PFA152-E
Wall Mount with Rain Shade	Pole Mount with Rain Shade
PFA137+PFA200W	PFA137+PFA152-E+PFA200W