

# DH-IPC-HDBW5631R-ZE

## 6MP WDR IR Dome Network Camera



- 1/2.9" 6Megapixel progressive scan STARVIS™ CMOS
- H.265&H.264 dual-stream encoding
- 20fps@6M(3072×2048),25/30fps@4M(2688×1520)
- Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.7mm ~13.5mm motorized lens
- Max. IR LEDs Length 50m
- Micro SD card memory, IP67,IK10, PoE



### System Overview

With upgraded H.265 encoding technology, Eco-savvy series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features starlight, smart IR technology and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

### Protection(IP67, IK10, wide voltage)

The camera allows for  $\pm 30\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV 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 is the choice for installation in even the most unforgiving environments.

### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec 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 H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

### Functions

#### ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

#### Wide Dynamic Range

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 (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

#### Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene

Technical Specification						
Camera						
Image Sensor	1/2.9" 6Megapixel progressive scan CMOS					
Effective Pixels	3072(H)x2048(V)					
RAM/ROM	512MB/32MB					
Scanning System	Progressive					
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s					
Minimum Illumination	0.03Lux/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 (164ft)					
IR On/Off Control	Auto/ Manual					
IR LEDs	2					
Lens						
Lens Type	Motorized/ Auto Iris(DC)					
Mount Type	Board-in					
Focal Length	2.7mm~13.5mm					
Max. Aperture	F1.4					
Angle of View	H:91°~27°, V:58°~18°					
Optical Zoom	5x					
Focus Control	Motorized					
Close Focus Distance	0.3m					
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	W	79m(259ft)	32m(105ft)	16m(52ft)	8m(41ft)	
	T	256m(840ft)	102m(334ft)	51m(167ft)	25m(84ft)	
Pan/Tilt/Rotation						
Pan/Tilt/Rotation Range	Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°					
Intelligence						
IVS	Tripwire, Intrusion, Object Abandoned/Missing					
Advanced Intelligent Functions	Face Detection					
Video						
Compression	H.265+/H.265/H.264+/H.264					
Streaming Capability	3 Streams					
Resolution	6M(3072x2048)/5M(3072x1728)/ 5M(2592x1944)/ 4M(2688x1520)/ 3M(2048x1536)/ 3M(2304x1296)/ 1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/ D1(704x576/704x480)/ VGA(640x480)/ CIF(352x288/352x240)					
Frame Rate	Main Stream: 6M(1~20fps)/4M(1~25/30fps)					
	Sub Stream: D1(1~25/30fps)					
	Third Stream: 720P(1~25/30fps)					
Bit Rate Control	CBR/VBR					
Bit Rate	H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps					
Day/Night	Auto(ICR) / Color / B/W					
BLC Mode	BLC / HLC / WDR					
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					
Defog	N/A					
Digital Zoom	16x					
Flip	0°/90°/180°/270°					
Mirror	Off / On					
Privacy Masking	Off / On (4 Area, Rectangle)					
Audio						
Compression	G.711a/ G.711Mu/ AAC/ G.726					
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; SNMP					
Interoperability	ONVIF, PSIA, CGI					
Streaming Method	Unicast / Multicast					
Max. User Access	10 Users /20 Users					
Edge Storage	NAS Local PC for instant recording Mirco 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) UL:UL60950-1 FCC: FCC Part 15 Subpart B					
Interface						
Video Interface	N/A					
Audio Interface	1/1 channel In/Out					
RS485	N/A					
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC					
Electrical						
Power Supply	DC12V, PoE(802.3af)(Class 0)					
Power Consumption	<8.5W					

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 (4.8"×3.5")
Net Weight	0.5kg (1.1lb)
Gross Weight	0.58kg (1.29lb)

Ordering Information

Type	Part Number	Description
6MP camera	DH-IPC-HDBW5631RP-ZE	6MP IR Dome Network Camera, WDR, PAL
	DH-IPC-HDBW5631RN-ZE	6MP IR Dome Network Camera, WDR, NTSC
	IPC-HDBW5631RP-ZE	6MP IR Dome Network Camera, WDR, PAL
	IPC-HDBW5631RN-ZE	6MP IR Dome Network Camera, WDR, NTSC
Accessories (optional)	PFB203W	Wall mount
	PFA137	Junction box
	PFB200C	In-ceiling mount
	PFA152-E	Pole Mount
	LR1002	ePoE Over Coax Converter

Accessories

Optional:



LR1002 ePoE Over Coax Converter

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

Dimensions (mm/inch)

