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DH-IPC-HDBW5431E-Z

4MP WDR IR Dome Network Camera



- 1/3" 4Megapixel progressive scan CMOS
- H.265&H.264 triple-stream encoding
- 25/30fps@4Mp(2688×1520)
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.7mm ~12mm motorized lens
- Max. IR LEDs Length 50m
- IP67,IK10, PoE
- Micro SD card memory



System Overview

Eco-savvy products by upgrading H.265 encoding technology, bringing high efficient video compression. It saves bandwidth and storage, energy-saving design to enhance the monitoring system. Meanwhile, the series offers features such as starlight, Smart IR technology, intelligent image analysis techniques. It provides excellent image quality and intelligent and efficient event reminders. This series provides IP67 weatherproof and IK10 vandal-proof protection feature. Give customers more value

Functions

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.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

Environmental

With a temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all

times.

Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264, some retain the original technology, while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream, encoding quality, and the delay between algorithm complexity, optimize settings specific contents include: Improve compression efficiency, improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay, reduce complexity, etc

Technical Specification						
Camera						
Image Sensor	1/3" 4Megapixel progressive scan CMOS					
Effective Pixels	2688(H)x1520(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	3					
Lens						
Lens Type	Motorized/ Auto Iris(DC)					
Mount Type	Board-in					
Focal Length	2.7mm~12mm					
Max. Aperture	F1.4					
Angle of View	H: 100°~35° , V:54°~20°					
Optical Zoom	4x					
Focus Control	Motorized					
Close Focus Distance	0.3m					
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	W	68(223ft)	27m(89ft)	14m(46ft)	7m(23ft)	
	T	192m(630ft)	77m(253ft)	39m(128ft)	19m(62ft)	
Pan/Tilt/Rotation						
Pan/Tilt/Rotation Range	Pan:0°~355°; Tilt:0°~65°; 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	4M(2688x1520)/3M(2304x1296)/1080P(1920x1080)/ 1.3M(1280x960)/720P(1280x720)/ D1(704x576/704x480)/VGA(640x480)/ CIF(352x288/352x240)					
Frame Rate	Main Stream: 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: 24~10240Kbps H.265: 14~9984Kbps					
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 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	1 Port(For adjustment only)					
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, AC24V, PoE(802.3af)(Class 0)					
Power Consumption	<12.5W					

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	Φ159.1mm×117.9mm (6.26"×4.64")
Net Weight	0.89kg (1.96lb)
Gross Weight	1.13kg (2.49lb)

Ordering Information

Type	Part Number	Description
4MP camera	DH-IPC-HDBW5431EP-Z	4MP IR Dome Network Camera, WDR, PAL
	DH-IPC-HDBW5431EN-Z	4MP IR Dome Network Camera, WDR,NTSC
	IPC-HDBW5431EP-Z	4MP IR Dome Network Camera,WDR,PAL
	IPC-HDBW5431EN-Z	4MP IR Dome Network Camera, WDR,NTSC
Accessories (optional)	PFA138	Junction Box
	PFB302S	Wall mount
	PFB201C	In-ceiling mount
	PFB300C	Ceiling mount
	PFA152	Pole mount
	PFA101	Mount adapter

Accessories

Optional:



PFB302S
Wall mount



PFA138
Junction Box



PFB201C
In-ceiling mount



PFB300C
Ceiling mount



PFA152
Pole mount



PFA101
Mount adapter

In-ceiling Mount	Junction Mount	Pole Mount
PFB201C	PFA138	PFA101 + PFB302S + PFA152
Ceiling Mount	Wall Mount	
PFA101 + PFB300C	PFA101 + PFB302S	

Dimensions (mm/inch)

