

DH-IPC-HDBW5830E-Z

8MP IR Dome Network Camera



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

4K technology

4K technology as a revolutionary breakthrough in image, which enhance the expressive image of essence, allowing users to experience the best picture quality brought about by the visual feast . For the purposes of 4K surveillance with four times the 1080P resolution, presented to the user with more details . Under the same scenario by raising the pixels , reduce the camera cost.

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

- · 1/2.5" 8Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 dual-stream encoding
- · 15fps@4K(3840×2160),25/30fps@3M(2304×1296)
- · Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~12mm motorized lens
- \cdot Max. IR LEDs Length 50m
- IP67,IK10, PoE



times.

Protection

Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides protectection 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



Eco Savvy 3.0 | DH-IPC-HDBW5830E-Z

Technical Specification

Camera					
Image Sensor		1/2.5" 8Megapixel progressive scan CMOS			
Effective Pixels		3840(H)x2160(V)			
RAM/ROM		512MB/32MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.05Lux/F1.4 (Color,1/3s,30IRE) 0.2Lux/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:102°~39° , V:55°~22°			
Optical Zoom		4x			
Focus Control		Motorized			
Close Focus Dis	tance	0.3m			
	Lens	Detect Observe Recognize Identify			
DORI Distance	W	91m(299ft)	36m(118ft)	18m(59ft)	9m(30ft)
	Т	228m(748ft)	91m(299ft	46m(151ft)	23m(75ft)
Pan/Tilt/Rot	tation				
Pan/Tilt/Rotati	on Range	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°)
Intelligence					
IVS		Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intell	ligent Functions	Face Detection			
Video					
Compression		H.265+/H.265/H.264+/H.264			
Streaming Capability		3 Streams			
Resolution		4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/ 3M(2048×1536)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480) / VGA(640×480)/CIF(352×288/352×240)			
		Main Stream: 4K(1~15fps)/3M(1~25/30fps)			
Frame Rate		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 / DWDR			
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			

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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	IK10			
Construction				
Casing	Metal			
Dimensions	Ф159.1mm×117.9mm (6.26"×4.64")			
Net Weight	0.89kg (1.96lb)			

1.13kg (2.49lb)

Ordering Information

Gross Weight

Туре	Part Number	Description	
8MP camera	DH-IPC- HDBW5830EP-Z	8MP IR Dome Network Camera, PAL	
	DH-IPC- HDBW5830EN-Z	8MP IR Dome Network Camera, NTSC	
	IPC-HDBW5830EP-Z	8MP IR Dome Network Camera, PAL	
	IPC-HDBW5830EN-Z	8MP IR Dome Network Camera, NTSC	
Accessories (optional)	PFB302S	Wall mount	
	PFA138	Junction box	
	PFB201C	In-ceiling mount	
	PFA101	Mount adapter	
	PFB300C	Ceiling mount	
	PFA152	Pole mount	

Accessories

Optional:



Mount Adapter



Ceiling Mount



PFA138 Junction Box



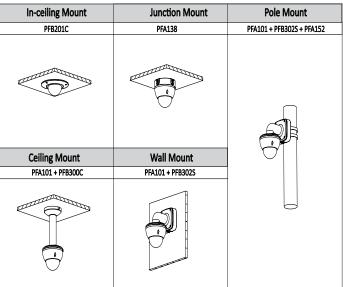




PFB201C In-ceiling Mount

PFB302S Wall Mount

PFA152 Pole Mount



Dimensions (mm/inch)

