

DH-IPC-HDBW5231E-Z5

2MP WDR 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

Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.006 lux).

Wide Dynamic Range

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures 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, People Counting, 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

- · 1/2.8" 2Megapixel progressive scan STRAVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 7mm ~35mm 5X zoom lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 100m
- · Micro SD memory, IP67, IK10, PoE















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 enviorments 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 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



Technical Specification					Day/Night	Auto(ICR) / Color / B/W	
Camera					BLC Mode	BLC / HLC / WDR(120dB)	
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		1920(H) x 1080(V)				Gain Control	Auto/Manual
RAM/ROM		256MB/32MB				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.006Lux/F1.4 (Color,1/3s,30IRE) 0.05Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4 (IR on)				Electronic Image Stabilization (EIS)	N/A
S/N Ratio		More than 50dB				Smart IR	Support
IR Distance		Distance up to 100m (328ft)				Defog	N/A
IR On/Off Control		Auto/ Manual				Digital Zoom	16x
IR LEDs		3				Flip	0°/90°/180°/270°
						Mirror	Off / On
Lens Type		Motorized/Au	to Iris/HALL)			Privacy Masking	Off / On (4 Area, Rectangle)
		Motorized/ Auto Iris(HALL)				Audio	
Mount Type		Board-in				Compression	G.711a/ G.711Mu/ AAC/ G.726
Focal Length		7mm~35mm				Network	
Max. Aperture		F1.4				Ethernet	RJ-45 (10/100Base-T)
Angle of View Optical Zoom		H: 35°~12° , V: 19°~7° 5x				Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;
Focus Control		Motorized					IGMP; SNMP
Close Focus Dist	tance	0.6m				Interoperability	ONVIF, PSIA, CGI
DORI	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
Distance	W	131m(429ft)	52m(170ft)	26m(85ft)	13m(42ft)	Max. User Access	10 Users / 20 Users
T 427m(1400ft) 171m(561ft) 85m(278ft) 42m(138ft) Pan/Tilt/Rotation			42111(13611)	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB		
Pan/Tilt/Rotation	on Range	Pan:0*~355*; Tilt:0*~65*; Rotation:0*~355*				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, Easy4ip
IVS		Tripwire, Intrusion, Object Abandoned/Missing				Smart Phone	IOS, Android
Advanced Intell	igent Functions	Face Detection				Certifications	
Video Compression		H.265+/H.265/H.264+/H.264				Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability		3 Streams				Interface	,
3 20	,	1080P(1920x1080)/1.3M(1280x960)/				Video Interface	1 Port(For adjustment only)
Resolution		720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				Audio Interface	1/1 channel In/Out
Frame Rate		Main Stream: 1	1080P (1~50/60	Ofps)		RS485	N/A
		Sub Stream: D1(1~50/60fps)				Alarm	1 channel In: 5mA 5VDC
		Third Stream: 1080P(1~25/30fps)				Electrical	1 channel Out: 300mA 12VDC
		CBR/VBR				LICCLICAL	
Bit Rate Control						Power Supply	DC12V, AC24V, PoE(802.3af)(Class 0)

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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)
Gross Weight	1.13kg (2.49lb)

Ordering Information Type Part Number Description DH-IPC-2MP IR Dome NetworkCamera,WDR, PAL HDBW5231EP-Z5 DH-IPC-2MP IR Dome Network Camera, WDR, NTSC HDBW5231EN-Z5 2MP camera IPC-HDBW5231EP-Z5 2MP IR Dome Network Camera, WDR, PAL IPC-HDBW5231EN-Z5 2MP IR Dome Network Camera WDR,NTSC PFA138 Junction Box PFB302S Wall mount PFB201C In-ceiling mount Accessories (optional) PFB300C Ceiling mount PFA152 Pole mount PFA101 Mount adapter

Accessories

Optional:







PFB302S Wall mount

PFA138 Juntion Box

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)





