

DH-IPC-HDW5231R-Z

2MP WDR IR Eyeball 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 Exmor 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
- · 2.7mm ~12mm motorized lens
- · Max. IR LEDs Length 50m
- · IP67, PoE
- · Micro SD card memory













camera is designed for extreme temperature environments. . 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 6KV 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





Camera	
Image Sensor	1/2.8" 2Megapixel progressive scan CMOS
Effective Pixels	1920(H) x 1080(V)
RAM/ROM	256MB/32MB
Scanning System	Progressive
Minimum Illumination	0.006Lux/F1.4 (Color); 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~12mm
Max. Aperture	F1.4
Angle of View	H: 97°~34°, V:52°~20°
Optical Zoom	4x
Focus Control	Motorized
Close Focus Distance	0.3m
Pan/Tilt/Rotation	
Pan/Tilt/Rotation Range	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°
Intelligence	
IVS (optional)	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	1080P(1920x1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)
	Main Stream: 1080P(1~50/60fps)
Frame Rate	Sub Stream: D1(1~50/60fps)
	Third Stream: 1080P(1~25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 24~9472Kbps H.265: 14~5632Kbps
Day/Night	Auto(ICR) / Color / B/W

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) UI:UI.60950-1 FCC: FCC Part 15 Subpart B	
Interface		
Video Interface	N/A	
Audio Interface	Built-in Mic	
RS485	N/A	
Alarm	N/A	
Electrical		
Power Supply	DC12V, PoE(802.3af)(Class 0)	
Power Consumption	~9 EW	



Power Consumption

Eco Savvy 3.0 | DH-IPC-HDW5231R-Z

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Strorage Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Ф122mm×104.9mm(4.8"×4.13")
Net Weight	0.6Kg (1.32lb)
Gross Weight	0.71Kg (1.57lb)

Ordering Information				
Туре	Part Number	Description		
2MP camera	DH-IPC- HDW5231RP-Z	2MP IR Eyeball Network Camera, WDR, PAL		
	DH-IPC- HDW5231RN-Z	2MP IR Eyeball Network Camera, WDR, NTSC		
	IPC-HDW5231RP-Z	2MP IR Eyeball Network Camera, WDR, PAL		
	IPC-HDW5231RN-Z	2MP IR Eyeball Network Camera, WDR, NTSC		
Accessories	PFB203W	Wall mount		
	PFA137	Junction box		
	PFA152	Pole Mount		

Accessories

Optional:







PFA152 Pole Mount

PFB203W Wall Mount

PFA137 Junction Box

Junction Mount	Pole Mount
PFA137	PFB203W + PFA152
Wall Mount	
PFB203W	

Dimensions (mm/inch)







