

DH-IPC-HDW4231M

2MP 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 (0.009 lux).

Wide Dynamic Range

Embedded 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@1080P(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 3.6mm fixed lens (6mm optional)
- · Max. IR LEDs Length 30m
- · IP67, PoE















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 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 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 Exmor CMOS	
Effective Pixels	1920(H) x 1080(V)	
	256MB/32MB	
RAM/ROM		
Scanning System	Progressive	
Minimum Illumination	0.009Lux/F2.0 (Color), 0Lux/F2.0 (IR on)	
S/N Ratio	More than 50dB	
IR Distance	Distance up to 30m (98.4ft)	
IR On/Off Control	Auto/ Manual	
IR LEDs	12	
Lens		
Lens Type	Fixed	
Mount Type	Board-in	
Focal Length	3.6mm (6mm optional)	
Max. Aperture	F2.0 (F2.0)	
Angle of View	H: 87° (51°), V: 48° (30°)	
Optical Zoom	N/A	
Focus Control	Fixed	
Close Focus Distance	N/A	
Pan/Tilt/Rotation		
Pan/Tilt/Rotation Range	Pan:0°~360°; Tilt:0°~90°; 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(1280x720)/D1(704x576/704x480)/ VGA(640x480)/CIF(352x288/352x240)	
	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	
BLC Mode	BLC / HLC / WDR(120dB)	

Auto/Natural/Street Lamp/Outdoor/Manual Auto/Manual 3D DNR Off / On (4 Zone, Rectangle) Off / On (4 Zone) N/A Support
3D DNR Off / On (4 Zone, Rectangle) Off / On (4 Zone) N/A
Off / On (4 Zone, Rectangle) Off / On (4 Zone) N/A
Off / On (4 Zone)
N/A
Support
N/A
16x
0°/90°/180°/270°
Off / On
Off / On (4 Area, Rectangle)
N/A
RJ-45 (10/100Base-T)
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
ONVIF, PSIA, CGI
Unicast / Multicast
10 Users /20 Users
NAS Local PC for instant recording
IE, Chrome, Firefox, Safari
Smart PSS, DSS, Easy4ip
IOS, Android
CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
N/A
N/A
N/A
N/A
DC12V, PoE (802.3af)(Class 0)
<6W

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Ф93.4mm×79.4mm (3.68"×3.13")
Net Weight	0.3Kg (0.66lb)
Gross Weight	0.42Kg (0.93lb)

Ordering Information				
Туре	Part Number	Description		
2MP camera	DH-IPC- HDW4231MP- 0360B	2MP IR Eyeball Network Camera,PAL		
	DH-IPC- HDW4231MN- 0360B	2MP IR Eyeball Network Camera,NTSC		
	IPC-HDW4231MP- 0360B	2MP IR Eyeball Network Camera,PAL		
	IPC-HDW4231MN- 0360B	2MP IR Eyeball Network Camera,NTSC		
	DH-IPC- HDW4231MP- 0600B	2MP IR Eyeball Network Camera,PAL		
	DH-IPC- HDW4231MN- 0600B	2MP IR Eyeball Network Camera,NTSC		
	IPC-HDW4231MP- 0600B	2MP IR Eyeball Network Camera,PAL		
	IPC-HDW4231MN- 0600B	2MP IR Eyeball Network Camera,NTSC		
Accessories (optional)	PFB204W	Wall mount		
	PFA13A	Junction box		
	PFA152	Pole Mount		

Accessories

Optional:







PFA152 Pole Mount

PFB204W Wall Mount

PFA13A Junction Box

Junction Box	Pole Mount
PFA13A	PFB204W + PFA152
Wall Mount	T
PFB204W	

Dimensions (mm/inch)





