dahua TECHNOLOGY

DH-IPC-HDBW4231E-AS-S4

2MP IR Mini Dome Network Camera

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm, 6mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 30m
- · Micro SD memory, IP67, IK10, PoE

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 (0.005 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 intelliegence 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-40 °C to +60 °C (-40 °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 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 2KV 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.

ONVIF

Technical Specification

Camera

Image Sensor	1/2.8" 2Megapixel progressive scan CMOS
Effective Pixels	1920(H)x1080(V)
RAM/ROM	256MB/32MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s
Minimum Illumination	0.004Lux/F2.0(Color,1/3s,30IRE) 0.02Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)
IR Distance	Distance up to 30m (98ft)
IR On/Off Control	Auto/ Manual
IR LEDs	18

Lens

Lens Type	Fixed
Mount Type	Board-in
Focal Length	2.8mm (3.6mm, 6mm optional)
Max. Aperture	F1.9 (F2.0, F2.0)
Angle of View	H: 95° (84°, 53°), V:54° (45°, 40°)
Optical Zoom	N/A
Aperture Type	Fixed
Close Focus Distance	0.6m(0.9m, 2.0m)

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)
	3.6 mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)
	6.0 mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan:0˚~355˚; Tilt:0˚~64˚; 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	1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)
Frame Rate	Main Stream: 1080P(1~25/30fps) Sub Stream: D1(1~25/30fps) Third Stream: 1080P(1~5/0fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 192~10240Kbps H.265: 80~6144Kbps

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; SFTP; RTMP; NFS; SMB
Interoperability	ONVIF, CGI, Milstone, Genetec
Streaming Method	Unicast / Multicast
Max. User Access	10 Users /20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card 256GB
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	N/A
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, PoE (802.3af)(Class 0)
Power Consumption	<6.4W

Environmental

Operating Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Φ109.9mm×81mm (4.33"×3.19")
Net Weight	0.37kg (0.82lb)
Gross Weight	0.51 kg (1.12lb)

Ordering Information

Type	Part Number	Description
2MP camera	DH-IPC-HDBW4231EP-AS-0280B-S4	2MP IR Mini Dome Network Camera, WDR,PAL
	DH-IPC-HDBW4231EN-AS-0280B-S4	2MP IR Mini Dome Network Camera, WDR,NTSC
	IPC-HDBW4231EP-AS-0280B-S4	2MP IR Mini Dome Network Camera, WDR,PAL
	IPC-HDBW4231EN-AS-0280B-S4	2MP IR Mini Dome Network Camera, WDR,NTSC
	DH-IPC-HDBW4231EP-AS-0360B-S4	2MP IR Mini Dome Network Camera, WDR,PAL
	DH-IPC-HDBW4231EN-AS-0360B-S4	2MP IR Mini Dome Network Camera, WDR,NTSC
	IPC-HDBW4231EP-AS-0360B-S4	2MP IR Mini Dome Network Camera, WDR,PAL
	IPC-HDBW4231EN-AS-0360B-S4	2MP IR Mini Dome Network Camera, WDR,NTSC
	DH-IPC-HDBW4231EP-AS-0600B-S4	2MP IR Mini Dome Network Camera, WDR,PAL
	DH-IPC-HDBW4231EN-AS-0600B-S4	2MP IR Mini Dome Network Camera, WDR,NTSC
	IPC-HDBW4231EP-AS-0600B-S4	2MP IR Mini Dome Network Camera, WDR,PAL
	IPC-HDBW4231EN-AS-0600B-S4	2MP IR Mini Dome Network Camera, WDR,NTSC
Accessories (optional)	PFB203W	Wall mount
	PFA136	Junction box
	PFA152-E	Pole mount
	PFA200W	Rain shade

Accessories

Optional:

PFA136 Junction Box	PFB203W Wall Mount	PFA152-E Pole Mount	PFA200W Rain shade

Junction Mount	Pole Mount
PFA136	PFB203W + PFA152-E
Wall Mount	
PFB203W	
	Pole Mount with Rain Shade
	PFA136W + PFA152-E+PFA200W
Wall Mount with Rain Shade	
PFA136W+PFA200W	

Dimensions (mm[inch])

109.9 [4.33"]

81.0 [3.19"]

∅109.9 [∅4.33"]
∅98.2 [∅3.87"]
3-∅4.7 [∅0.19"]

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