

DH-IPC-HDW4431T-Z-S4

4MP WDR IR Eyeball Network Camera



- · 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4Mp(2688×1520)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~13.5mm motorized lens
- · Max. IR LEDs Length 50m
- · IP67, PoE
- · Micro SD card memory 256GB













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 (0.01 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, 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. 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 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.



Technical Specification							Day/Night	Auto(ICR) / Color / B/W
Camera							BLC Mode	BLC / HLC / WDR(120dB)
Image Sensor		1/3" 4Megapixel progressive scan CMOS					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		2688(H)x1520(V)					Gain Control	Auto/Manual
RAM/ROM		512MB/32MB					Noise Reduction	3D DNR
Scanning System	m	Progressive					Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shut	ter Speed	Auto/Manual, 1/3~1/100000s					Region of Interest	Off / On (4 Zone)
Minimum Illum	ination	0.01Lux/F1.6 (Color,1/3s,30IRE) 0.1Lux/F1.6(Color,1/30s,30IRE) 0Lux/F1.6(IR on)					Electronic Image Stabilization (EIS)	N/A
IR Distance		Distance up to 50m (164ft)					Smart IR	Support
IR On/Off Conti	rol	Auto/ Manual					Defog	N/A
IR LEDs		2					Digital Zoom	16x
Lens							Flip	0°/90°/180°/270°
Lens Type		Motorized					Mirror	Off / On
Mount Type		Board-in					Privacy Masking	Off / On (4 Area, Rectangle)
Focal Length		2.7mm~13.5mm					Audio	
Max. Aperture		F1.6					Compression	G.711a/ G.711Mu/ AAC/ G.726
Angle of View		H: 100°~27° , V:54°~16°					Network	
Optical Zoom		5x					Ethernet	RJ-45 (10/100Base-T)
Aperture Type		Fixed					Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPV4/V6; QoS; URPR-NTP: Regions: 903.1v; Multicast; ICMP:
Close Focus Dis	tance	0.8m						UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
DORI	Lens	Detect	Observe	Recognize	Identify		Interoperability	ONVIF, PSIA, CGI
Distance	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)		Streaming Method	Unicast / Multicast
	Т	222m(728ft)	89m(292ft)	44m(144ft)	22m(72ft)		Max. User Access	10 Users /20 Users
Pan/Tilt/Rotation Pan/Tilt/Rotation Range		Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°					Edge Storage	NAS Local PC for instant recording Mirco SD card 256GB
Intelligence							Web Viewer	IE, Chrome, Firefox, Safari
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Management Software	Smart PSS, DSS, Easy4ip
Advanced Intel	ligent Functions	Face Detection					Smart Phone	IOS, Android
Video							Certifications	
Compression		H.265+/H.265/H.264+/H.264					Coubifications	CE (EN 60950:2000)
Streaming Capability		3 Streams					Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
		4M(2688x1520)/3M(2304x1296)/1080P(192					Interface	
Resolution	Resolution		0x1080) /1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)				Video Interface	N/A
Frame Rate		Main Stream: 4M(1~25/30fps)					Audio Interface	Built-in Mic
		Sub Stream: D1(1~25/30fps)					RS485	N/A
		Third Stream: 1080P(1~14/4fps)					Alarm	N/A
Bit Rate Control		CBR/VBR					Electrical	
Bit Rate		H.264: 32~10240Kbps H.265: 32~8192Kbps					Power Supply	DC12V, PoE(802.3af)(Class 0)
							Power Consumption	~9 21M

Power Consumption

<8.2W

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +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	0.76Kg (1.67lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HDW4431TP-Z-S4	4MP IR Eyeball Network Camera, WDR, PAL		
40.40	DH-IPC- HDW4431TN-Z-S4	4MP IR Eyeball Network Camera, WDR, NTSC		
4MP camera	IPC-HDW4431TP- Z-S4	4MP IR Eyeball Network Camera, WDR, PAL		
	IPC-HDW4431TN- Z-S4	4MP IR Eyeball Network Camera, WDR, NTSC		
	PFB203W	Wall mount		
Accessories (optional)	PFA137	Junction box		
	PFA152-E	Pole Mount		

Accessories

Optional:







PFA152-E Pole Mount

PFB203W Wall Mount

PFA137 Junction Box

Junction Mount	Pole Mount
PFA137	PFB203W+PFA152-E
Wall Mount	
PFB203W	

Dimensions (mm/inch)





