

DH-IPC-HFW4431D-AS

4MP WDR LXIR Bullet 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

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.

- · 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4M(2688×1520)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 3.6mm fixed lens (6mm lens optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 80m
- · Micro SD memory, IP67, PoE











Supporting $\pm 30\%$ 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



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Technical Specification						White Balance	Auto/Natural/Street Lamp/Outdoor/Man
Camera					Gain Control	Auto/Manual	
Image Sensor		1/3" 4Megapixel progressive scan CMOS				Noise Reduction	3D DNR
Effective Pixels		2688(H)x1520(V)				Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		512MB/32MB				Region of Interest	Off / On (4 Zone)
Scanning System		Progressive				Electronic Image Stabilization	N/A
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s				(EIS) Smart IR	Support
Minimum Illumination		0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)				Defog	N/A
S/N Ratio		More than 50dB				Digital Zoom	16x
IR Distance		Distance up tp 80m (262ft)				Flip	0°/90°/180°/270°
IR On/Off Conti	rol	Auto/ Manual				Mirror	Off / On
IR LEDs		2				Privacy Masking	Off / On (4 Area, Rectangle)
						Audio	., (
Lens		F. 1					
Lens Type		Fixed				Compression	G.711a/ G.711Mu/ AAC/ G.726
Mount Type		Board-in				Network	
Focal Length		3.6mm (6mm	optional)			Ethernet	RJ-45 (10/100Base-T)
Max. Aperture Angle of View		F2.0 (F2.0) H: 87° (55°), V: 48° (31°)					HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; S FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; C
Optical Zoom		N/A				Protocol	UPnP;NTP; Bonjour; 802.1x; Multicast; IGMP; SNMP
Focus Control		Fixed				Interoperability	ONVIF, PSIA, CGI
Close Focus Dis	tance	N/A				Streaming Method	Unicast / Multicast
	Lens	Detect	Observe	Recognize	Identify	Max. User Access	10 Users /20 Users
DORI Distance	3.6 mm 6.0 mm	80m(262ft) 117m(384ft)	32m(105ft) 47m(154ft)	16m(52ft) 23m(75ft)	8m(26ft) 12m(39ft)	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rot	tation					Web Viewer	IE, Chrome, Firefox, Safari
Pan/Tilt/Rotati	on Range	Pan:0°~360°; Tilt:0°~87°; Rotation:0°~360°					
Intelligence						Management Software	Smart PSS, DSS, Easy4ip
IVS		Tripwire, Intro	usion, Object	Abandoned/N	Missing	Smart Phone	IOS, Android
Advanced Intel	ligent Functions	Face Detection	on			Certifications	
Video		Tace Detection				Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Compression		H.265+/H.265	5/H.264+/H.26	64		Interface	
Streaming Capa	ability	3 Streams	201/214/220:	.1206\/		Video Interface	N/A
Resolution		4M(2688×1520)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/				Audio Interface	1/1 channel In/Out
		VGA(640×480)/CIF(352×288/352×240)				RS485	N/A
Frame Rate		Main Stream: 4M(1~25/30fps)				Alarm	1 channel In: 5mA 5VDC
		Sub Stream: D1(1~25/30fps) Third Stream: 720P(1~25/30fps)					1 channel Out: 300mA 12VDC
Bit Rate Control		CBR/VBR	. 1201(1 25/3	orps)		Electrical	
Bit Rate		H.264: 24~10				Power Supply	DC12V, PoE (802.3af)(Class 0)
		H.265: 14~61				Power Consumption	<7.5W
Day/Night		Auto(ICR) / Co	DIOL \ R\M				

BLC / HLC / WDR(120dB)

BLC Mode

Environmental

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

Construction

Casing	Metal
Dimensions	241.8mm×90.4mm×90.3mm (9.52"×3.56"×3.56")
Net Weight	0.61Kg (1.35lb)
Gross Weight	0.8kg (1.77lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HFW4421DP-AS- 0360B	4MP LXIR Bullet Network Camera, WDR, PAL			
	DH-IPC- HFW4421DN-AS- 0360B	4MP LXIR Bullet Network Camera, WDR, NTSC			
	IPC-HFW4421DP- AS-0600B	4MP LXIR Bullet Network Camera, WDR, PAL			
4MP camera	IPC-HFW4421DN- AS-0600B	4MP LXIR Bullet Network Camera, WDR, NTSC			
4IVIP Calliera	DH-IPC- HFW4421DP-AS- 0600B	4MP LXIR Bullet Network Camera, WDR, PAL			
	DH-IPC- HFW4421DN-AS- 0600B	4MP LXIR Bullet Network Camera, WDR, NTSC			
	IPC-HFW4421DP- AS-0600B	4MP LXIR Bullet Network Camera, WDR, PAL			
	IPC-HFW4421DN- AS-0600B	4MP LXIR Bullet Network Camera, WDR, NTSC			
Accessories	PFA135	Junction box			
(optional)	PFA150	Pole Mount			

Accessories

Optional:





PFA150 Pole Mount

PFA135 Junction Box

Junction Mount	Pole Mount
PFA135	PFB135 + PFA150

Dimensions (mm/inch)



