

DH-IPC-HFW5231E-Z

2MP WDR IR 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

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, 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 STARVIS™ 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
- · 2/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50m
- · Micro SD memory, 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 environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Protection

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



Technical Specification							Day/Night	Auto(ICR) / Color / B/W
Camera						BLC Mode	BLC / HLC / WDR(120dB)	
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		1920(H) x 1080(V)					Gain Control	Auto/Manual
RAM/ROM		256MB/32MB					Noise Reduction	3D DNR
Scanning System		Progressive					Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s					Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.006Lux/F1.4 (Color,1/3s,30IRE) 0.05Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4 (IR on)					Electronic Image Stabilization (EIS)	N/A
S/N Ratio	S/N Ratio		More than 50dB				Smart IR	Support
IR Distance		Distance up to 50m (164ft)					Defog	N/A
IR On/Off Contro	ol	Auto/ Manual					Digital Zoom	16x
IR LEDs		4					Flip	0°/90°/180°/270°
Lens							Mirror	Off / On
Lens Type		Motorized/ Auto Iris(DC), Automatic Varifocal					Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type		Board-in					Audio	
Focal Length		2.7mm~12mm					Compression	G.711a/ G.711Mu/ AAC/ G.726
Max. Aperture		F1.4					Network	
Angle of View		H: 97°~34°, V:52°~20°					Ethernet	RJ-45 (10/100Base-T)
Optical Zoom		4x					Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; URPP:NTP: Regious: 902.1v; Multicast: ICMP:
Focus Control		Motorized, Automatic Varifocal						UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP; RTCP; SNTP
Close Focus Distance		0.3m					Interoperability	ONVIF, PSIA, CGI
0.001	Lens	Detect	Observe	Recognize	Identify		Streaming Method	Unicast / Multicast
DORI Distance	W	48m(157ft)	19m(62ft)	10m(33ft)	5m(16ft)		Max. User Access	10 Users /20 Users
Pan/Tilt/Rot	T ation	133m(436ft)	53m(174ft)	27m(89ft)	13m(46ft)		Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotatio		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°					Web Viewer	IE, Chrome, Firefox, Safari
Intelligence	. 0-	Taine 300 , Tile.0 30 , Notation.0 300					Management Software	Smart PSS, DSS, Easy4ip
IVS (optional)		Tripwire, Intrusion, Object Abandoned/Missing					Smart Phone	IOS, Android
Advanced Intelligent Functions		Face Detection					Certifications	
Video							Certifications	CE (EN 60950:2000) UL:UL60950-1
Compression		H.265+/H.265/H.264+/H.264					luta ufa aa	FCC: FCC Part 15 Subpart B
Streaming Capability		3 Streams					Interface	4.0 1/5 1 1 1
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/ VGA(640x480)/CIF(352x288/352x240)					Video Interface Audio Interface	1 Port(For adjustment only) 1/1 channel In/Out
Frame Rate		Main Stream: 1080P(1~50/60fps)					RS485	N/A
		Sub Stream: D1(1~50/60fps)					Alarm	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
		Third Stream: 1080P(1~25/30fps)					Electrical	
Bit Rate Control		CBR/VBR					Power Supply	DC12V, PoE (802.3af)(Class 0)
Bit Rate		H.264: 24~9472Kbps H.265: 14~5632Kbps					Power Consumption	<11.5W

Eco Savvy 3.0 | DH-IPC-HFW5231E-Z

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	273.2mm×95.0mm×96.4mm (10.76"×3.74"×3.79")
Net Weight	1.07Kg (2.36lb)
Gross Weight	1.4Kg (3.09lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HFW5231EP-Z	2MP IR Bullet Network Camera, WDR, PAL			
2140	DH-IPC- HFW5231EN-Z	2MP IR Bullet Network Camera, WDR, NTSC			
2MP camera	IPC- HFW5231EP-Z	2MP IR Bullet Network Camera,WDR,PAL			
	IPC- HFW5231EN-Z	2MP IR Bullet Network Camera,WDR,NTSC			
Accessories	PFA121	Junction box			
(optional)	PFA152	Pole Mount			

Accessories

Optional:





PFA121 Junction box

PFA152 Pole Mount

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152

Dimensions (mm/inch)





