

DH-IPC-HFW5231E-Z12

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
- · 5.3mm ~64mm 12x zoom lens
- · 2/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 200m
- · 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 ±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		More than 50dB				Smart IR	Support
IR Distance		Distance up to 200m (656ft)				Defog	N/A
IR On/Off Contro	ol	Auto/ Manual				Digital Zoom	16x
IR LEDs		4				Flip	0°/90°/180°/270°
						Mirror	Off / On
Lens						Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Motorized/ Auto Iris(HALL)				Audio	
Mount Type		Board-in				Compression	G.711a/ G.711Mu/ AAC/ G.726
Focal Length		5.3mm~64mm				Network	
Max. Aperture		F1.4				Ethernet	RJ-45 (10/100Base-T)
Angle of View		H: 59°~5°, V:34°~3°				Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMT FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Optical Zoom		12x					
Focus Control		Motorized				Interoperability	ONVIF, PSIA, CGI
Close Focus Dista		1.5m(4.9ft)	Oh	D i	(- -	Streaming Method	Unicast / Multicast
DORI	Lens W	Detect 73m(236ft)	Observe 29m(95ft)	Recognize 14m(46ft)	Identify 7m(23ft)	Max. User Access	10 Users /20 Users
Distance	Т	882m(2893ft)	, ,	176m(577ft)		Wax. Osci /icccss	NAS
Pan/Tilt/Rota	ation					Edge Storage	Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotation Range		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, Easy4ip
IVS (optional)		Tripwire, Intrus	ion, Object Abar	ndoned/Missing	g	Smart Phone	IOS, Android
Advanced Intelligent Functions		Face Detection				Certifications	
Video						Certifications	CE (EN 60950:2000)
Compression		H.265+/H.265/H.264+/H.264					UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability		3 Streams				Interface	
			080)/1.3M(1280)			Video Interface	1 Port(For adjustment only)
Resolution		720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				Audio Interface	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				Power Consumption	<11.5W

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	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			
24.0	DH-IPC- HFW5231EP-Z12	2MP IR Bullet Network Camera,WDR,PAL			
	DH-IPC- HFW5231EN-Z12	2MP IR Bullet Network Camera,WDR,NTSC			
2MP camera	IPC- HFW5231EP-Z12	2MP IR Bullet Network Camera,WDR,PAL			
	IPC- HFW5231EN-Z12	2MP IR Bullet Network Camera,WDR,NTSC			
Accessories (optional)	PFA121	Junction box			
	PFA152	Pole Mount			

Accessories

Optional:





PFA121 Junction box

PFA152 Pole Mount

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152

Dimensions (mm/inch)



