

DH-IPC-HFW4631M-I1 DH-IPC-HFW4631M-I2

6MP WDR IR Mini Bullet Network Camera



- · 1/2.9" 6Megapixel progressive scan STARVIS™ CMOS
- · H. 265&H.264 triple-stream encoding
- · 20fps@6MP(3072x2048), 25/30fps@4MP(2688x1520)
- · 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 optional)
- · Max. IR LEDs Length 50m/80m
- · IP67, PoE











System Overview

With upgraded H.265 encoding technology, Eco-savvy series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features starlight, smart IR technology and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

Functions

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video analysis (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper

detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity, allowing the camera to operate in the harshest environments.

Protection (IP67, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67), the camera is the choice for installation in even the most unforgiving environments.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



Camera									
Monice Reduction Not Direct	Technical Specification							White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels	Camera							Gain Control	Auto/Manual
Record State September	Image Sensor		1/2.9" 6Megapixel progressive scan CMOS					Noise Reduction	3D DNR
Securing System Progressive Progressive Progressive Securing System Progressive Securing System Securing	Effective Pixels		3072(H) x 2048(V)					Motion Detetion	Off / On (4 Zone, Rectangle)
Section Sharter Speed	RAM/ROM		512MB/32MB					Region of Interest	Off / On (4 Zone)
	Scanning Syste	m	Progressive					Electronic Image Stabilization	N/Δ
Minimum Illumination Out.WF. III (Cont.) 26x, 30.8E) Obdog N/A	Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s					(EIS)	
IR Distance	Minimum Illumination		0.4Lux/F1.6(Color,1/30s,30IRE)						
Rip	S/N Ratio		More than 50dB					Digital Zoom	16x
Record Auto/Manual Auto/	IR Distance		Distance up to 50m/80m					Flip	0°/90°/180°/270°
Lens Lens Lens Lens Lens Lens Lens Type Fixed Audio	IR On/Off Control		Auto/ Manual						
Lens Type	IR LEDs		2						
Lens Type	Lens								
Focal Length 2.8mm (3.6mm optional) Network	Lens Type		Fixed					Audio	
Network Network Network Network Network Network Ethernet RJ-45 (10/1008ase-T) Network Nample of View H-98" (69"), V-67" (48") Protocol Fixed HTTP, HTTPS, TCP, ARP, RTSP, RTP, LDP, SMTP, FOGUS Control Fixed Protocol Fixed Protocol Fixed Protocol Fixed Protocol Pr								Compression	N/A
Angle of View	-							Network	
Optical Zoom	Max. Aperture		F1.6(F1.6)					Ethernet	RJ-45 (10/100Base-T)
Flocus Control Fixed IGMP; SNMP Interoperability ONVIF, PSIA, CGI	_							Protocol	FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;
Lens	Focus Control		Fixed						
DORI Distance 2.8 mm 69m(226ft) 28m(92ft) 14m(46ft) 7m(23ft) Max. User Access 10 Users /20 Users	Close Focus Distance		0.9m(1.7m)					Interoperability	ONVIF, PSIA, CGI
NAS Local PC for instant recording		Lens	Detect	Observe	Recognize	Identify		Streaming Method	Unicast / Multicast
Pan/Tilt/Rotation	DORI Distance	2.8 mm	69m(226ft)	28m(92ft)	14m(46ft)	7m(23ft)		Max. User Access	10 Users /20 Users
Pan/Tilt/Rotation Range	Dan/Til+/Po		89m(292ft)	36m(118ft)	18m(59ft)	9m(30ft)		Edge Storage	
Intelligence								Weh Viewer	IF. Chrome, Firefox, Safari
Interligence Inte		Ü	Pan:U ~360 ; Tilt:U ~90'; Rotation:0'~360'						
Advanced Intelligent Functions Face Detection Video Compression		!							
Video CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Streaming Capability 3 Streams Interface (3072×2048)/(3072×1728)/(2592×1944)/ (2688×1520)/(2560×1440)/ (2304×1296)/1080P(1920×1080)/ SXGA(1280×1024)/1.3M(1280× 960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) Video Interface N/A Resolution Main Stream: 6MP (1~20fps), 4MP(1~25/30fps) RS485 N/A Frame Rate Sub Stream: D1(1~25/30fps) Alarm N/A Bit Rate Control CBR/VBR Power Supply DC12V, PoE (802.3af)(Class 0) Bit Rate H.264: 24K~10240Kbps H.265: 14K~9984Kbps Power Consumption <6.5W									ios, Android
Compression		ligent Functions	Face Detection					Certifications	
(3072×2048)/(3072×1728)/(2592×1944)/ (2688×1520)/(2560×1440)/ (2304×1296)/1080P(1920×1080)/ SXGA(1280×1024)/1.3M(1280× 9960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) RS485 N/A			H.265+/H.265/H.264+/H.264					Certifications	UL:UL60950-1
Resolution	Streaming Capability							Interface	
SXGA(1280×1024)/1.3M(1280× 960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) RS485 N/A	Resolution		(2688×1520)/(2560×1440)/ (2304×1296)/1080P(1920×1080)/ SXGA(1280×1024)/1.3M(1280× 960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)					Video Interface	N/A
CIF(352×288/352×240) RS485 N/A Main Stream: 6MP (1~20fps), 4MP(1~25/30fps) Alarm N/A Sub Stream: D1(1~25/30fps) Third Stream: 1080P(1~25/30fps) Bit Rate Control CBR/VBR Power Supply DC12V, PoE (802.3af)(Class 0) Bit Rate H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps Power Consumption < 6.5W								Audio Interface	N/A
Frame Rate Sub Stream: D1(1~25/30fps) Third Stream: 1080P(1~25/30fps) Bit Rate Control CBR/VBR Power Supply DC12V, PoE (802.3af)(Class 0) Bit Rate H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps Power Consumption 6.5W								RS485	N/A
Third Stream: 1080P(1~25/30fps) Bit Rate Control CBR/VBR Power Supply DC12V, PoE (802.3af)(Class 0) H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps Power Consumption 46.5W	Frame Rate							Alarm	N/A
Bit Rate Control CBR/VBR Power Supply DC12V, PoE (802.3af)(Class 0) Bit Rate H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps Power Consumption <6.5W								Electrical	
Bit Rate H.264: 24K ~ 10240Kbps Power Consumption <6.5W	Bit Rate Control								DC12V, PoE (802.3af)(Class 0)
			H.264: 24K ~ 10240Kbps						
	Day/Night		Auto(ICR) / Color / B/W						

DH-IPC-HFW4631M-I1 Eco Savvy 3.0 | DH-IPC-HFW4631M-I2

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	180mm×70mm×70mm (7.09"×2.76"×2.76")	
Net Weight	0.41kg (0.91lb)	
Gross Weight	0.53 kg (1.17lb)	

Accessories

Optional:







PFA152-E Pole Mount



LR1002 ePoE Over Coax Converter

