

DH-IPC-HFW3251M-AS-I2

2MP WDR IR Mini Bullet Network Camera



System Overview

3 Series 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

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) 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 Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

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 (0.008 lux).

Intelligent Video Analysis (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

- · 1/2.7" 2Megapixel progressive scan STARVIS™ CMOS
- · H. 265+&H.264+ triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD card slot, up to 128GB
- · 3.6mm fixed lens (6mm, 8mm, 12mm optional)
- · Max. IR LEDs Length 80m
- · IP67, PoE















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.

Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 80m (262.5ft).

Protection (IP67, wide voltage)

The camera allows for $\pm 30\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 4KV 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.

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.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification						White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Camera						Gain Control	Auto/Manual
Image Sensor		1/2.7" 2Megapixel progressive scan CMOS				Noise Reduction	3D DNR
Effective Pixels		1920(H) x 1080(V)				Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		256MB/128MB				Region of Interest	Off / On (4 Zone)
Scanning System		Progressive				Electronic Image Stabilization	
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				(EIS)	N/A
Electromositatte, specu		0.008Lux/F2.0(Color,1/3s,30IRE)				Smart IR	Support
Minimum Illumination		0.04Lux/F2.0 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 to 80m (262.5ft)				Flip	0°/90°/180°/270°
IR On/Off Control		Auto/ Manual				Mirror	Off / On
IR LEDs		2				Privacy Masking	Off / On (4 Area, Rectangle)
Lens						Audio	
Lens Type		Fixed				Compression	G.711a/ G.711Mu/ AAC/ G.726
Mount Type Focal Length		Board-in 3.6mm (6mm, 8mm, 12mm optional)				Network	
Max. Aperture		F2.0				Ethernet	RJ-45 (10/100Base-T)
							HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;
Angle of View Focus Control		H: 88°/55°/41°/27°, V: 47°/31°/23°/15° Fixed				Protocol	
Close Focus Distance		0.9m (2.95t)					IGMP; SNMP; RTCP; SSH
	Lens	Detect	Observe	Recognize	Identify	Interoperability	ONVIF Profile S&G, API
DORI Distance	3.6mm	53m(274ft)	21m(69ft)	11m(36.1ft)	5m(16ft)	Streaming Method	Unicast / Multicast
DOM Distance	6mm	80m(262.5ft)	32m(105ft)	16m(52.5ft)	8m(26.3ft)	Max. User Access	10 Users /20 Users
	8mm 12mm	107m(351ft)	43m(141ft)	21m(69ft)	11m(36.1ft)	Edge Storage	NAS Local PC for instant recording
Intolliganca		167m(548ft) 67m(220ft) 33m(108ft) 17m(56ft)			17111(3011)		Mirco SD card 128GB
Intelligence		Motion detection, Video tampering, Scene changing,				Web Viewer	IE, Chrome, Firefox, Safari
Event Trigger		Network disconnection, IP address conflict, Illegal access, Storage anomaly				Management Software	Smart PSS, DSS, DMSS
IVS		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					FCC: FCC Part 15 Subpart B
Streaming Capability		3 Streams				Interface	
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				Video Interface	N/A
						Audio Interface	1/1 channel In/Out
Frame Rate		Main Stream: 1080P (1~25/30fps)				RS485	N/A
		Sub Stream: D1(1~25/30fps)				Alarm	2 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC
		Third Stream: 1080P(1~14/9fps)				Electrical	
Bit Rate Control		CBR/VBR					DC43V D-F (003 3 5VC)
Bit Rate		H.264:16Kbps~8192Kbps H.265: 6Kbps~6554Kbps				Power Supply	DC12V PoE (802.3af)(Class 0)
Day/Night		Auto(ICR) / Color / B/W				Power Consumption	DC12V: 1.6W, 8.9W(IR On) PoE: 2.1W, 10.8W(IR On)
BLC Mode		BLC / HLC / W	DR(120dB)			Power Out	Max. 165mA 12VDC

3 Series | DH-IPC-HFW3251M-AS-I2

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+Plastic
Dimensions	194mm×96mm×89mm (7.64"×3.78"×3.50")
Net Weight	0.71kg (1.57lb)
Gross Weight	0.79 kg (1.74lb)

Accessories

Optional:



Wall Mount	Ceiling Mount	
PFB121W	PFB110W	

Dimensions (mm/inch)





