

# DH-IPC-HFW2849M-S-B-PRO

8MP WizColor Fixed-focal Bullet WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

#### **Series Overview**

With advanced deep learning algorithm, Dahua WizSense 2 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

#### **Functions**

## WizColor Technology

Dahua WizColor Technology seamlessly combines with the powerful AI-ISP, large pixel size sensor and large aperture in cameras. This unique integration enables cameras to effortlessly capture high-quality images with vibrant colors during nighttime scenarios, ensuring fine details are preserved and minimizing motion blur. Unlike traditional self-illuminating cameras, Dahua WizColor Technology maximizes the utilization of weak light sources, such as moonlight and city lights reflected in the sky, delivering captivating full-color images of the entire scene. It also ensures that monitoring distances are not compromised at night due to limited illumination ranges, facilitating full-color image capture even over long distances.

#### AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

#### SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840  $\times$  2160)@20 fps, and supports 4 MP (2688  $\times$  1520)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in warm light, and the max. illumination distance is 50 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Supports max. 256 G Micro SD card; built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- · SMD Plus.















## **Perimeter Protection**

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

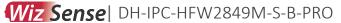
## Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

## Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes. Wide voltage: The camera allows  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification								Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@
Camera								(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30
Image Sensor		1/1.8" CMOS					Video Frame Rate	fps) *The values above are the max. frame rates of each
Max. Resolution		3840 (H) × 2160 (V)						stream; for multiple streams, the values will be subjected to the total encoding capacity.
ROM		128 MB					Streaming Capability	2 streams
RAM		256 MB					Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2880 × 1620); 4M (2688 × 1520); 3M (2048 ×
Scanning System		Progressive						1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						(640 × 480); CIF (352 × 288/352 × 240)
Min. Illumination		0.0004 lux@F1.0					Bit Rate Control	VBR; CBR
S/N Ratio		>56 dB					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
Illumination Distance		Up to 50 m (164.04 ft) (Warm light)					Day/Night	Color/B/W
Illuminator On/Off Control		Auto; Manual					BLC	Yes
Illuminator Number		4 (Warm light)					HLC	Yes
Lens							WDR	120 dB
Lens Type		Fixed-focal					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Mount Focal Length		M16 3.6 mm; 6 mm					Gain Control	Auto/Manual
Max. Aperture		F1.0					Noise Reduction	3D NR
		3.6 mm: H: 93°; V: 49°; D: 110°					Motion Detection	OFF/ON (4 areas, rectangular)
Field of View		6 mm: H: 57°; V: 30°; D: 66°					Region of Interest (RoI)	Yes (4 areas)
Iris Control		Fixed					Smart Illumination	Yes
Close Focus Distance		3.6 mm: 4 m (13.12 ft) 6 mm: 12 m (39.37 ft)					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)
	Lens	Detect	Observe	Recognize	Identify		Mirror	Yes
	3.6 mm	102.0 m (334.65 ft)	40.8 m (133.86 ft)	20.4 m (66.93 ft)	10.2 m (33.46 ft)		Privacy Masking	4 areas
DORI	6 mm	169.0 m (554.46 ft)	67.6 m (221.78 ft)	33.8 m (110.89 ft)	16.9 m (55.45 ft)		LDC	Yes
Distance	*DORI (Detec	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					Audio	
							Built-in MIC	Yes, built-in Mic
							Audio Compression	G.711a; G.711Mu; PCM; G.726
	project design						Alarm	
Intelligence  IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
SMD		SMD Plus					Network	
Canaut Canau		Work together with Smart NVR to perform refine					Network Port	RJ-45 (10/100 Base-T)
Smart Search		intelligent search, event extraction and merging to event videos					SDK and API	Yes
Video Comp		H.265; H.264; H.264H; H.264B; MJPEG (Only supported					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; P2P; Bonjour; Auto
Video Compression		by the sub stream)						Registration
Smart Codec		Smart H.265+; Smart H.264+					Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI



User/Host	20 (Total bandwidth: 48 M)					
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS					
Browser	IE; Chrome; Firefox					
Management Software	Smart PSS Lite; DSS; DMSS					
Mobile Client	Android; iOS					
Security	Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade; Session security; Security warning					
Certification						
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU					
Power						
Power Supply	12 VDC (±30%); PoE (802.3af)					
Power Consumption	Basic: 2.4 W (12 VDC); 3.2 W (PoE) Max.: 6.2 W (12 VDC); 7.5 W (PoE) (H.265+ intelligence on + WDR + illuminator intensity)					
Environment						
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)					
Operating Humidity	≤95% (RH), non-condensing					
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)					
Storage Humidity	≤95% (RH), non-condensing					
Protection	IP67					
Structure						
Casing Material	Metal + plastic					
Product Dimensions	201.0 mm × 103.8 mm × 97.8 mm (7.91" × 4.09" × 3.85") (L × W × H)					
Net Weight	0.68 kg (1.50 lb)					
Gross Weight	1.15 kg (2.54 lb)					

Ordering Information							
Туре	Model	Description					
IP CAMERA	DH-IPC-HFW2849M-S-B-PRO	8MP WizColor Fixed-focal Bullet WizSense Network Camera					
	PFB120WS	Wall Mount Bracket					
	DH-PFA162	Universal Joint					
	DH-PFB110W	Ceiling Mount Bracket					
	DH-PFA150	Pole Mount Bracket					
	DH-PFB121W	Wall Mount Bracket					
	DH-PFA121	Water-proof Junction Box					
Accessories	G3416GW	G3/4" Water Joint					
	DH-PFA152-E	Pole Mount Bracket					
	DH-PFM321-EN	DC12V1A power adapter					
	DH-PFM321D-EN	DC12V 1A power adapter					
	DH-PFM320D-EN	DC12V2A power adapter					
	PFM900-E	Integrated Mount Tester					
	DHI-TF-P100/256GB	MicroSD Card					

## **Accessories**

## Included:



PFB120WS Wall Mount Bracket

## Optional:



DH-PFA162 Universal Joint



DH-PFB110W Ceiling Mount Bracket



DH-PFA150 Pole Mount Bracket



DH-PFA121 Water-proof Junction Box



G3416GW G3/4" Water Joint



DH-PFB121W

Wall Mount Bracket

DH-PFA152-E Pole Mount Bracket



DH-PFM321-EN DC12V1A power adapter



DH-PFM321D-EN DC12V 1A power adapter



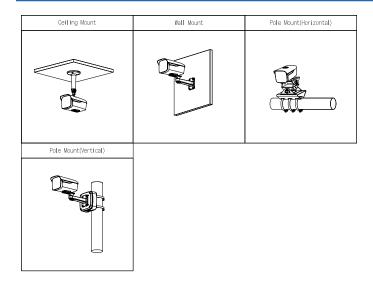
DH-PFM320D-EN DC12V2A power adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



# Dimensions (mm[inch])

