

DH-IPC-HFW3249E-AS-NI

2MP Lite AI Full-color Fixed-focal Bullet Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire (classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic
- 12V DC/PoE power supply
- IP67 protection
- SMD



System Overview

With advanced deep learning algorithm, Dahua Lite AI series network camera supports intelligent functions, such as perimeter protection and smart motion detection. In addition, with full-color technology, it provides a better image effect in the condition of low illuminance.

Functions

Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

SMD

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.

Smart Codec (H.265+ & 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.

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

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 normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification					
Camera					
Image Sensor		1/2.8"2Megapixel progressive CMOS			
Effective Pixels		1920 (H) × 1080 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s			
Min. Illumination		0.0015 Lux @ F1.0			
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		3.6 mm			
Max. Aperture		F1.0			
Field of View		3.6 mm: Horizontal 84° × vertical 45° × diagonal 99°			
Iris Type		Fixed			
Close Focus Distance		3.6 mm: 1.7 m (5.6 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	3.6mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)
Professional, Intelligent					
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people)			
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos			
Video					
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (sub stream)			
Smart Codec		H.264: Yes H.265: Yes			
Video Frame Rate		Main stream (1920 × 1080 @ 1–25/30 fps) sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720 @ 1–25/30 fps)			
Stream Capability		3 streams			
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			
Bit Rate Control		CBR; VBR			
Video Bit Rate		H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps			
Day/Night		Color/B/W			
BLC		Yes			
WDR		120 dB			
White Balance		Auto/natural/street lamp/outdoor/manual/regional custom			

Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)
Mirror	Yes
Privacy Masking	4 areas

Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; G726; AAC

Network	
Network	RJ-45 (10/100 Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP
Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Scene self-adaptation	Yes
User/Host	20 (Total bandwidth: 64M.)
Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
Browser	IE: IE8; IE9; IE11 Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android

Certification	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC

Power	
Power Supply	12V DC/PoE
Power Consumption	< 4.3W

Environment	
Operating Conditions	–40°C to +60°C (–40°F to +140°F)/less than≤95%
Storagage Conditions	–40°C to +60°C (–40°F to +140°F)
Ingress Protection	IP67

Structure

Casing	Metal
Dimensions	192.7 mm × 70.5 mm × 66.4 mm (632.2" × 231.3" × 217.8") (L × W × H)
Net Weight	590 g (1.3 lb)
Gross Weight	780 g (1.7 lb)

Ordering Information

Type	Part Number	Description
2MP Camera	DH-IPC-HFW3249EP-AS-NI	2MP Lite AI Full-color Fixed-focal Bullet Network Camera, PAL
	DH-IPC-HFW3249EN-AS-NI	2MP Lite AI Full-color Fixed-focal Bullet Network Camera, NTSC
Accessories (optional)	PFA134	Junction Box
	PFA152-E	Pole Mount
	PFM321D	DC12V1A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender
	PFM900-E	Integrated Mount Tester
	PFM114	TLC SD Card

Accessories

Optional:



PFA134
Junction Box



PFA152-E
Pole Mount



PFM321D
DC12V1A Power
Adapter



LR1002-1ET/1EC
Single-port long
reach ethernet over
coax extender

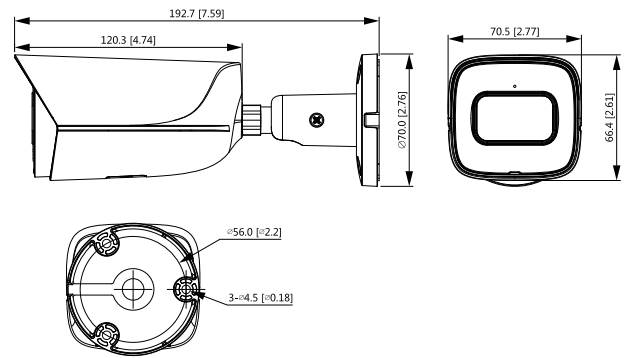


PFM900-E
Integrated Mount
tester



PFM114
TLC SD card

Dimensions (mm[inch])



Pole Mount	Wall Mount
PFA134+PFA152-E	PFA134