

DH-IPFA41-IR100

4MP Lite IR Fixed-focal Bullet Network Camera



Series Overview

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying to the standards of IP67 and IK10 (Supported by some select models).

Functions

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.

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.

Starlight

Dahua Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect. \cdot 4MP, 1/3" CMOS image sensor, low illuminance, high image definition \cdot Outputs max. 4MP (2688 \times 1520) @20 fps, and supports 2560 \times 1440

(2560 × 1440) @25/30 fps • H.265 codec, high compression rate, ultra-low bit rate

· Built-in IR LED. max IR distance: 100 m

 \cdot 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 detection: Intrusion, tripwire

· Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal ac- cess, local alarm, voltage detection, audio detection

• Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD

card
• 12V DC/POE power support supply

 \cdot IP67 protection, IK10 protection (optional)



IVS

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

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows \pm 30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Lite Series | DH-IPFA41-IR100

Technical Specification

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Camera						
Image Sensor		1/3" 4Megapixel progressive CMOS				
Max. Resolution		2688 (H) × 1520 (V)				
ROM		128 MB				
RAM		128 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.008 Lux@F1.6				
S/N Ratio		> 56 dB				
Illumination Distance		100 m (262.5 ft)				
Illuminator On/Off Control		Auto/Manual				
Illuminator Number		4 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Mount Type		M12				
Focal Length		3.6 mm; 6 mm; 8 mm				
Max. Aperture		3.6 mm: F1.6 6 mm: F1.6 8 mm: F1.6				
Field of View		3.6 mm: Horizontal 84° × Vertical 45° × Diagonal 100° 6 mm: Horizontal 52° × Vertical 28° × Diagonal 61° 8 mm: Horizontal 40° × Vertical 23° × Diagonal 45°				
Iris Type		Fixed				
Close Focus Distance		3.6 mm: 1.4 m (4.6 ft) 6 mm: 3.1 m (10.2 ft) 8 mm:4.9 m(16.1 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	3.6 mm	80 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)	
	6 mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4 ft)	
	8 mm	160.0 m (524.9 ft)	64.0 m (210.0 ft)	32.0 m (105.0 ft)	16.0m (52.5 ft)	
Smart Event						
IVS		Tripwire; intrusion				
Video						
Video Compression		H.265; H.264; H.264B; MJPEG(only supported by the sub stream)				
		sy the sub stream				

Smart H.265+/ Smart H.264+

Main stream: 2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps)

704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)

Sub stream:

2 streams

Smart Codec

Video Frame Rate

Stream Capability

Bit Rate ControlCBR/VBRVideo Bit RateR.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbpsDay/NightAuto(ICR)/Color/B/WBLCYesHLCYesMDR120 dBWhite BalanceAuto/natural/street lamp/outdoor/manual/regional customMoise ReductionJD NRMotion DetectionOFF/ON (4 areas, rectangular)Smart IlluminationYesImage RotationNogo'Pgo'f180°/270° (Supports 90°/270° with 2688 x 120° custom and lower)MirrorYes				
Video Bit RateH.265: 12 kbps-6144 kbpsDay/NightAuto(ICR)/Color/B/WBLCYesHLCYesWDR120 dBWhite BalanceAuto/natural/street lamp/outdoor/manual/regional customGain ControlAuto/ManualNoise Reduction3D NRMotion DetectionOFF/ON (4 areas, rectangular)Smart IlluminationYesImage Rotation0°/90°/180°/270° (Supports 90°/270° with 2688 × 152 resolution and lower)				
BLC Yes HLC Yes WDR 120 dB White Balance Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Image Rotation O'90°/180°/270° (Supports 90°/270° with 2688 × 152 resolution and lower)				
HLC Yes WDR 120 dB White Balance Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Smart Illumination Yes Image Rotation 0°/90°/180°/270° (Supports 90°/270° with 2688 × 152 resolution and lower)				
WDR 120 dB White Balance Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Image Rotation 0°/90°/180°/270° (Supports 90°/270° with 2688 × 152 resolution and lower)				
White Balance Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Image Rotation Of'90°/180°/270° (Supports 90°/270° with 2688 × 152 resolution and lower)				
White Balance custom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Image Rotation 0°/90°/180°/270° (Supports 90°/270° with 2688 × 152 resolution and lower)				
Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Image Rotation 0°/90°/180°/270° (Supports 90°/270° with 2688 × 152 resolution and lower)				
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Image Rotation 0°/90°/180°/270° (Supports 90°/270° with 2688 × 152 resolution and lower)				
Image Rotation resolution and lower)				
Mirror Yes				
Privacy Masking 4 areas				
Audio				
Audio Compression G.711a; G.711Mu; G.726				
Alarm				
Alarm EventNo SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception; local alarm				
Network				
Network RJ-45 (10/100 Base-T)				
SDK and API Yes				
Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security log IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trust execution; trusted upgrade				
IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; Protocol RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnI NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour				
Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P				
User/Host 20				
Storage FTP; SFTP; Micro SD Card (support max. 256 GB); NAS				
IE Browser Chrome Firefox				
Management Software Smart PSS; DSS; DMSS				

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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 (802.3af)					
Power Consumption	< 7.7W					
Environment						
Operating Conditions	–40°C to +60°C (–40°F to +140°F)/less than \leq 95% RH					
Storage Temperature	-40°C to +60°C (-40°F to +140°F)					
Protection Grade	IP67; IK10(optional)					
Structure						
Casing	Metal					
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")					
Net Weight	0.91 kg (2.0 lb)					
Gross Weight	1.16 kg (2.6 lb)					

Ordering Information

Туре	Part Number	Description	
4MP Camera	DH-IPFA41-IR100	4MP Lite IR Fixed-focal Bullet Nework Camera,PAL	
	PFA130-E	Junction Box	
Accessories (optional)	PFA152-E	Pole Mount	
	PFM321D	12V DC 1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender	
	PFM900-E	Integrated Mount Tester	
	PFM114	TLC SD card	

Accessories

Optional:



Junction Box

1 in 1

1 in 1 LR1002-1ET/1EC

Single-port Long Reach Ethernet over



PFA152-E

Pole Mount



PFM321D 12V DC 1A Power Adapter





PFM900-E

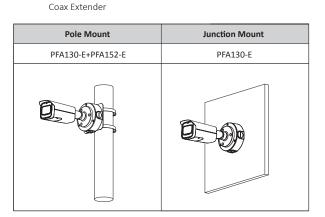
Integrated Mount

Tester

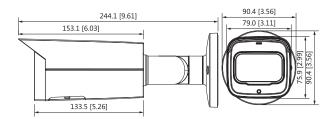


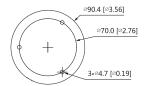
PFM114 TLC SD Card

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Dimensions (mm[inch])





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