

DH-IPC-WL46A

4MP Fixed-focal Floodlight Network Camera



Driven by industry-leading technology, Dahua Wireless Series network cameras are highly precise, producing high-quality images. They do not require network cables, making their installation easy to implement. It includes WiFi Series, 4G Camera, and 5G Camera to meet the needs of different wireless application scenarios.

Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry series network camera is applicable to small and medium-sized scenes, such as homes/residences, small-sized retail stores, and other small and medium-sized enterprises.

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.

Motion Detection

When moving objects appear in the monitoring image, Dahua Motion Detection technology triggers alarm or records.

- 4-MP 1/3" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2560 × 1440)@25 fps/30 fps
- H.265 codec, high compression rate, ultra-low bit rate.
- SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Built-in microphone and speaker for real-time communication.
- · Active alarm with built-in 110 dB Siren.
- The built-in dual floodlights can switch between warm and cool color temperature and have 4 floodlights modes.
- Detects humans, vehicles and animals to reduce the occurrence of false alarms.
- SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Dual-band 2.4 GHz and 5 GHz WiFi options, IEEE802.11a/b/g/n/ac.
- · Supports max. 256 G Micro SD card and NVR storage.
- 100-240 VAC power supply, easy for installation.
- IP65 Protection.

Day/Night

Dahua Day/Night function provides color image when illumination is adequate; when illuminance is inadequate, it switches night mode and provides white and black image. It can guarantee that the network camera can work normally when illuminance changes.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Technical Specification					Main stream: 2560 × 1440@(1–20 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30		
Camera					Video Frame Rate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Image Sensor	1/3" CMOS						
Max. Resolution	2560 (H) × 1440 (V)				Stream Capability	3 streams	
ROM	128 MB 512 MB				Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 1M (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
RAM							
Scanning System	Progressive					Bit Rate Control	CBR/VBR
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s				Video Bit Rate	H264: 32 kbps–8192 kbps; H265: 32 kbps–8192 kbps	
Min. Illumination	0.005 lux@F1.6 (Color,30 IRE) 0.0005 lux@F1.6 (B/W,30 IRE) 0 lux (Illuminator on)				Day/Night	Auto(ICR)/Color/B/W	
S/N Ratio	>56 dB				BLC	Yes	
Illumination Distance	10 m (32.81 ft) (IR);				HLC	Yes	
	30 m (98.43 ft) (Floodlight)				WDR	DWDR	
Illuminator On/Off Control Illuminator Number	Auto; Manual 1 (IR LED); 2 (Floodlight, color can be switched between				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
	warm and cool)				Gain Control	Auto	
Floodlight Brightness	1500-2400 lm				Noise Reduction	3D NR	
Floodlight Color Temperature	3000K±200K (warm); 6000K±300K (cool)				Motion Detection	OFF/ON (4 areas, rectangular)	
	Motion Activa	ition				Region of Interest (RoI)	Yes (4 areas)
Floodlight Modes Schedule PIR Activation						Smart Illumination	Yes
Camera:				Image Rotation	0°/180°		
	Pan: -85° to + Tilt: -90° to +					Mirror	Yes
Pan/Tilt/Rotation Range	Floodlight:	~				Privacy Masking	Yes
	Tilt: -90° to +90° Rotation: -145° to +145°				Audio		
PIR Sensor Distance		-	ce is 3 m, place	ed at an angle		Built-in MIC	Yes
PIR Detection Range	of 30° from the horizontal) 270°				Built-in Speaker	Yes	
Lens	270				Audio Compression	G.711a; G.711Mu; G.726; PCM	
Lens Type	Fixed-focal					Alarm	
Lens Mount	Fixed-focal M12					No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; security	
Focal Length	2.8 mm					Alarm Event	exception; motion detection; video tampering; sence changing; SMD (human, animal and vehicle); audio detection; intensity change
Max. Aperture	F1.6						
Field of View	H: 98°; V: 55°	D: 115°				Network	
Iris Control	Fixed				Wi-Fi	IEEE802.11a/b/g/n/ac 2.4–2.4835GHz & 5.18–5.85GHz	
Close Focus Distance	1.0 m (3.28 ft)				SDK and API	Yes	
DORI Distance	Detect 61.2 m	Observe 24.5 m	Recognize	Identify		Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
	(200.79 ft)	(80.38 ft)	(40.03 ft)	(20.01 ft)			IPV4; IPV6; ARP&Ping TCP; UDP; HTTP; RTSP; HTTPS;
Video						Network Protocol	DDNS; Email; SNMP; Multicast; Auto Registration; Wireless Qos; Wi-Fi setting; hotspot scanning; 802.1x;
Video Compression	H.264B; H.264; H.264H; H.265; MJPEG				laterana 199	UPnP status; Bonjour; UPnP; device discovery	
Smart Codec	Smart H.265+; Smart H.264+				Interoperability	ONVIF; CGI; P2P; RTMP	

Wireless Series | DH-IPC-WL46A

User/Host	6 (Total bandwidth: 36 M)
Storage	Micro SD card (support max. 256 GB); FTP; SFTP; NAS
Browser	IE; Chrome; Firefox
Management Software	DMSS
Mobile Client	iOS; Android

Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; CE-RED: Radio Equipment Directive 2014/53/EU; FCC: 47 CFR FCC Part 15, Subpart B; FCC ID: FCC PART 15C
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Power

Power Supply	100-240 VAC
Power Consumption	Basic: 5.2 W (100–240 VAC) Max. (Illuminator+IPC): 48.3 W (100–240 VAC)

Environment

Operating Temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Operating Humidity	≤ 95%
Storage Temperature	−20 °C to +50 °C (−4 °F to +122 °F)
Protection	IP65

Structure

Casing	Metal + Plastic
Product Dimensions	270.7 mm \times 217.2 mm \times 195.6 mm (10.66" \times 8.55" \times 7.70") (L \times W \times H)
Net Weight	1.40 kg (3.08 lb)
Gross Weight	1.88 kg (4.14 lb)

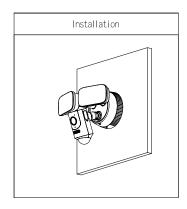
Ordering Information				
Туре	Model	Description		
4440.0	DH-IPC-WL46AP-0280B	4MP Fixed-focal Floodlight Network Camera		
4MP Camera	DH-IPC-WL46AN-0280B	4MP Fixed-focal Floodlight Network Camera		
Accessories (Optional)	TF-P100	MicroSD Memory Card		

Accessories

Optional:



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

