

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.

Wireless Series | DH-IPC-WL46A

Smart Codec

Smart H.265+; Smart H.264+

Technical Specification					Main stream: 2560 × 1440@(1–25 fps) Sub stream 1: 704 × 576@(1–25 fps)		
Camera							
Image Sensor	1/3" CMOS					Video Frame Rate	704 × 480@(1–30 fps) Sub stream 2: 640 × 480@(1 fps–25 fps) 640 × 480@(1 fps–30 fps)
Max. Resolution	2560 (H) × 1440 (V)						
ROM	128 MB						*The values above are the max. frame rates of each stream; for multiple streams, the values will be subject
RAM	512 MB					Starson Couch lite	to the total encoding capacity.
Scanning System	Progressive					Stream Capability	3 streams
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s					Resolution Bit Rate Control	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) CBR/VBR
Min. Illumination	0.005 lux@F1.6 (Color,30 IRE) 0.0005 lux@F1.6 (B/W,30 IRE) 0 lux (Illuminator on)						
S/N Ratio	>56 dB					Video Bit Rate	H264: 32 kbps–8192 kbps; H265: 32 kbps–8192 kbps
Illumination Distance	10 m (32.81 ft) (IR); 30 m (98.43 ft) (Floodlight)					Day/Night	Auto(ICR)/Color/B/W
Illuminator On/Off Control	Auto; Manual					BLC	Yes
Illuminator Number	1 (IR LED); 2 (Floodlight, color can be switched between					HLC	Yes
Floodlight Brightness	warm and cool) 1500-2400 lm					WDR	DWDR
Floodlight Color Temperature	3000K±200K (warm); 6000K±300K (cool)					White Balance	Auto; natural; street lamp; outdoor; manual; regiona custom
	Motion Activation Manual Schedule				Gain Control	Auto	
Floodlight Modes					Noise Reduction	3D NR	
PIR Activation						Motion Detection	OFF/ON (4 areas, rectangular)
	Camera: Pan: -85° to +85°					Region of Interest (RoI)	Yes (4 areas)
Pan/Tilt/Rotation Range	Tilt: -90° to +45° Rotation: 0° to +360°				Smart Illumination	Yes	
	Floodlight: Tilt: -90° to +90°					Image Rotation	0°/180°
	Rotation: -145° to $+145^{\circ}$					Mirror	Yes
PIR Sensor Distance	10 m (the height of the device is 3 m, placed at an angle of 30° from the horizontal)					Privacy Masking	Yes
PIR Detection Range	ection Range 270°					Audio	
Lens						Built-in MIC	Yes
Lens Type	Fixed-focal					Built-in Speaker	Yes
Lens Mount	M12					Audio Compression	G.711a; G.711Mu; G.726; PCM
Focal Length	2.8 mm	2.8 mm				Alarm	
Max. Aperture	F1.6					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; sence
Field of View	H: 98°; V: 55°	; D: 115°					
Iris Control	Fixed						changing; SMD (human, animal and vehicle); audio detection; intensity change
Close Focus Distance	1.0 m (3.28 ft)					Network	
	Detect	Observe	Recognize	Identify		Wi-Fi	IEEE802.11a/b/g/n/ac 2.4-2.4835GHz & 5.18-5.85G
DORI Distance	61.2 m (200.79 ft)	24.5 m (80.38 ft)	12.2 m (40.03 ft)	6.1 m (20.01 ft)		SDK and API	Yes
Video							Video encryption; configuration encryption; Digest;
Video Compression	H.264B; H.264; H.264H; H.265; MJPEG					Cyber Security	WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot trusted execution; trusted upgrade

trusted execution; trusted upgrade

Wireless Series | DH-IPC-WL46A

Network Protocol	IPV4; IPV6; ARP&Ping TCP; UDP; HTTP; RTSP; HTTPS; DDNS; Email; SNMP; Multicast; Auto Registration; Wireless Qos; Wi-Fi setting; hotspot scanning; 802.1x; UPnP status; Bonjour; UPnP; device discovery					
Interoperability	ONVIF; CGI; P2P; RTMP					
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					
Power						
Power Supply	100–240 VAC					
Power Consumption	Basic: 5.2 W (100–240 VAC) Max. (Illuminator+IPC): 48.3 W (100–240 VA	(C)				
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 × 217.2 mm × 195.6 mm (10.66" = 7.70") (L × W × H)	< 8.55" ×				
Net Weight	1.40 kg (3.08 lb)					
Gross Weight	1.88 kg (4.14 lb)					
Ordering Informatio						

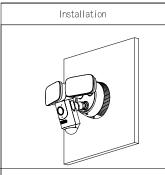
Туре	Model	Description	
4MP Camera	DH-IPC-WL46AP-0280B	4MP Fixed-focal Floodlight Network Camera	
	DH-IPC-WL46AN-0280B	4MP Fixed-focal Floodlight Network Camera	
Accessories (Optional)	TF-P100	MicroSD Memory Card	

Accessories

Optional:

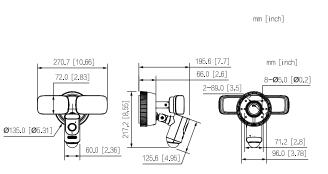


TF-P100 MicroSD Memory Card



Dimension

Dimensions (mm[inch])



© 2023 Dahua. All rights reserved. Design and specifications are subject to change without notice. The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product. Rev 002.000