

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

Technical Spe	cification
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Floodlight Color 3000K±200K (warm);			
NameNameMax. Resolution2560 (H) × 1440 (V)ROM128 MBRAM512 MBScanning SystemProgressiveElectronic Shutter SpeedAuto/Manual 1/3 s-1/100,000 sMin. Illumination0.005 lux@F1.6 (Color,30 IRE) 0 lux (Illuminator on)S/N Ratio>56 dBIllumination Distance10 m (32.81 ft) (IR); 30 m (98.43 ft) (Floodlight)Illuminator Number1.0 (IR LED); 2 (Floodlight, color can be switched betwee warm and cool)Floodlight Brightness1500-2400 ImFloodlight Color3000K±200K (warm);			
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	1500-2400 lm		
Temperature 6000K±300K (cool)	3000K±200K (warm); 6000K±300K (cool)		
Floodlight Modes PIR Activation PIR Activation	Manual Schedule		
Pan/Tilt/Rotation Range Pan/Tilt/Rotation Range Rotation: 0° to +35° Floodlight: Tilt: -90° to +90° Rotation: -145° to +145°	Pan: -85° to +85° Tilt: -90° to +45° Rotation: 0° to +360° Floodlight: Tilt: -90° to +90°		
PIR Sensor Distance 10 m (the height of the device is 3 m, placed at an a of 30° from the horizontal)	10 m (the height of the device is 3 $$ m, placed at an angle of 30° from the horizontal)		
PIR Detection Range 270°	270°		
Lens			
Lens Type Fixed-focal			
Lens Mount M12	M12		
Focal Length 2.8 mm	2.8 mm		
Max. Aperture F1.6	F1.6		
Field of View H: 98°; V: 55°; D: 115°	H: 98°; V: 55°; D: 115°		
Iris Control Fixed			
Close Focus Distance 1.0 m (3.28 ft)			
Detect Observe Recognize Ident DORI Distance 61.2 m 24.5 m 12.2 m 6.1 r			
61.2 m 24.5 m 12.2 m 6.1 r (200.79 ft) (80.38 ft) (40.03 ft) (200.10 ft)			
Video			
Video Compression H.264B; H.264; H.264H; H.265; MJPEG	H.264B; H.264; H.264H; H.265; MJPEG		

Video Frame Rate	Main stream: $2560 \times 1440@(1-25 \text{ fps})$ $2560 \times 1440@(1-30 \text{ fps})$ Sub stream 1: $704 \times 576@(1-25 \text{ fps})$ $704 \times 480@(1-30 \text{ fps})$ Sub stream 2: $640 \times 480@(1 \text{ fps}-25 \text{ fps})$ $640 \times 480@(1 \text{ fps}-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Stream Capability	3 streams	
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)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H264: 32 kbps–8192 kbps; H265: 32 kbps–8192 kbps	
Day/Night	Auto(ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	DWDR	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Image Rotation	0°/180°	
Mirror	Yes	
Privacy Masking	Yes	
Audio		
Built-in MIC	Yes	
Built-in Speaker	Yes	
Audio Compression	G.711a; G.711Mu; G.726; PCM	
Alarm		
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; sence changing; SMD (human, animal and vehicle); audio detection; intensity change	
Network		
Wi-Fi	IEEE802.11a/b/g/n/ac 2.4-2.4835GHz & 5.18-5.85GHz	
SDK and API	Yes	
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	

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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 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 × 217.2 mm × 195.6 mm (10.66" × 8.55" × 7.70") (L × W × H)			
Product Dimensions Net Weight				

Ordering Information

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



Dimensions (mm[inch])



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