# freecam®

# L820 AI Floodlight Cam

Installation Guide V1.0
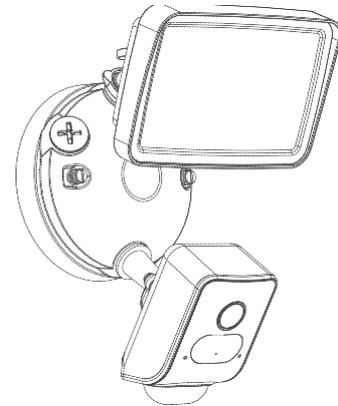
AI Floodlight Cam is an outdoor security camera integrating surveillance and lighting with WiFi connection.

● Camera with built-in AI suspicious intrusion detection algorithm; avoiding false alarms.
● Protection zone and lighting trigger can be set up on the APP.
● Combine outdoor security surveillance with lighting.
● 1080P full HD.

# 2 Indicator Light Status

| Indicator Light Status | Status statement |
|---|---|
| Red indicator is on | Camera starts up,continue for 15 seconds |
| Red indicator blinks | Red indicator blinks (every 1 sec): WiFi configuration standby |
| Blue indicator blinks | Blue indicator blinks:connecting WiFi |
| Blue indicator is on | Connect WiFi successfully |
| Red and blue indicator blinks alternately | 2 indicators blink alternately (every 1 sec): Device upgrading Please keep charging |

# 1 AI Floodlight Cam



**Front**          **Back**

| | | | |
|---|---|---|---|
| ① | Lens | ⑤ | Reset |
| ② | Indicator light | ⑥ | Speaker |
| ③ | PIR infrared body sensor | ⑦ | TF card slot |
| ④ | Mic | | |

# 3 Mounting Position And Protection Zone

### 3.1 Check Wi-Fi availability

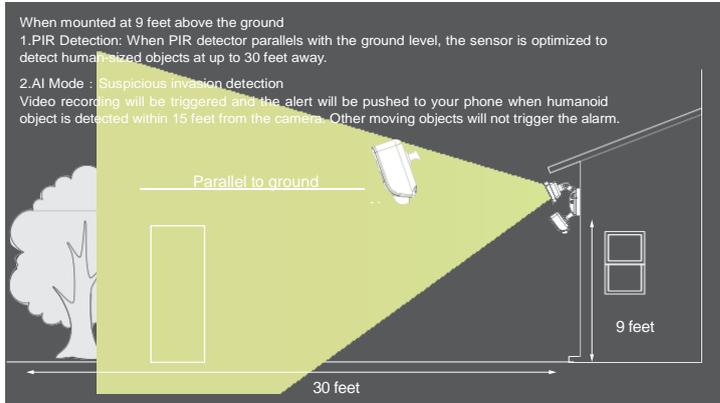**i** The AI Floodlight Cam needs a stable and sufficient strong Wi-fi connection.



Please choose the location where you would like to position your AI Floodlight Cam and check the strength of the Wi-fi signal HSNVR**** using your smart phone.

The table above indicates whether the WiFi signal is strong enough for use in combination with the AI Floodlight Cam.

### 3.2 Ideal installation height of motion detection

When mounted at 9 feet above the ground
1.PIR Detection: When PIR detector parallels with the ground level, the sensor is optimized to detect human-sized objects at up to 30 feet away.

2.AI Mode : Suspicious invasion detection
Video recording will be triggered and the alert will be pushed to your phone when humanoid object is detected within 15 feet from the camera. Other moving objects will not trigger the alarm.

Parallel to ground

9 feet

30 feet

## 4 Installation Illustration

**i** M820 AI Floodlight Cam needs (US)100-110VAC (EU)220-240VAC power supply (with live, neutral and ground connections).

**⚠ Before you start the installation please ensure the power is switched off at the main power switch.**

### 4.1 Safety instructions:

• Prior to installation or maintenance, the electricity supply must be turned off.
• Please use the supply leads that must be at least 22AWG pvc coated wire.
• Be sure to connect ground lead.

### 4.2 Installation notes:

• Height of installation from the ground is suggested around 9 feet.(3 meters)
• Motion sensor (Factory settings)has an horizontal range of 24 feet (8 Meters). Default setting of sensibility as "Middle".
• Mounting bracket mounts to recessed or surface standard junction box. Junction box must be at least 1-1/2 inch in depth for proper installation.
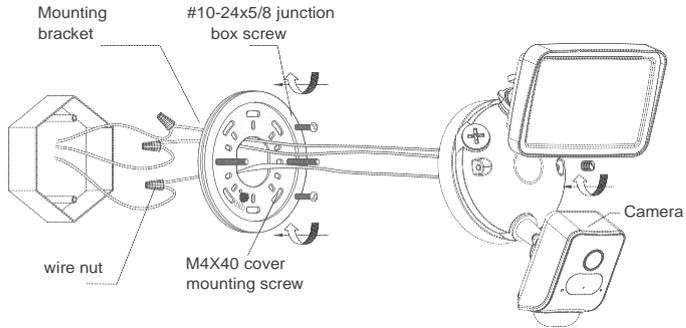
### 4.3 NOTED

These instructions assume you're replacing an existing floodlight and /or have a junction box where Floodlight Cam can be mounted. If you don't have a junction box, then you'll need to hire a licensed electrician to install one.
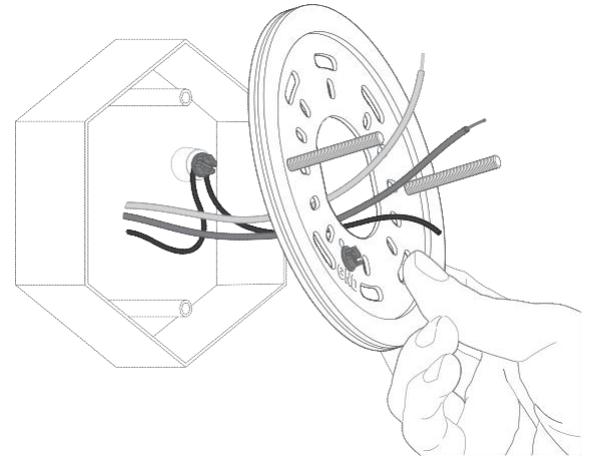
### 4.4 Accessories and installation guide

① ② ③
A    B

④ ⑤ ⑥ ⑦

Operation instruction of the product
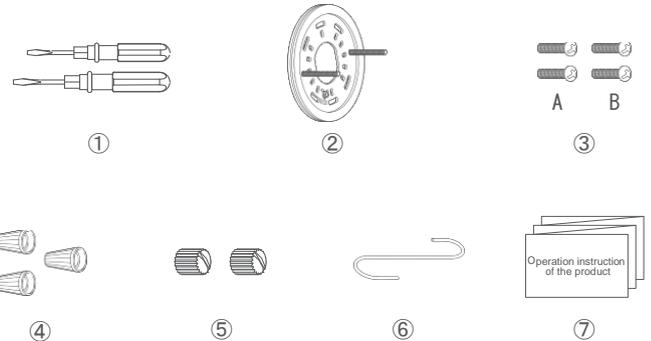
| ① | Screwdriver(2) | ④ | Wire Nuts (3) | ⑦ | Manual (3) |
|---|---|---|---|---|---|
| ② | Mounting Bracket | ⑤ | Cap Nuts (2) | | |
| ③ | A.Inch thread (2) B.Metric thread (2) | ⑥ | Hook | | |

## Installation instrustion



Mounting bracket

#10-24x5/8 junction box screw

wire nut

M4X40 cover mounting screw

Camera

### 4.5 Installation instructions:

A. Turn OFF power at the circuit breaker box.

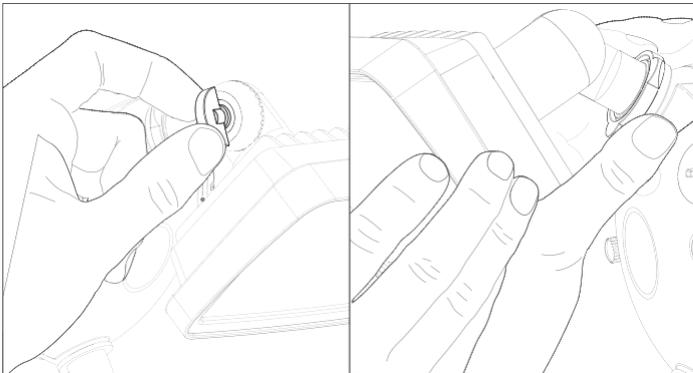B. Loosen the knobs on the light fixtures to rotate them out of the way and allow access to the mounting screws.



C. Install the mounting bracket with the two posts level with the ground or level with your wall if mounting vertically on an overhand.



D. Make sure your existing wires come through the middle of the bracket. Attach the bracket to your junction box using at least two screws.



L

N

GND
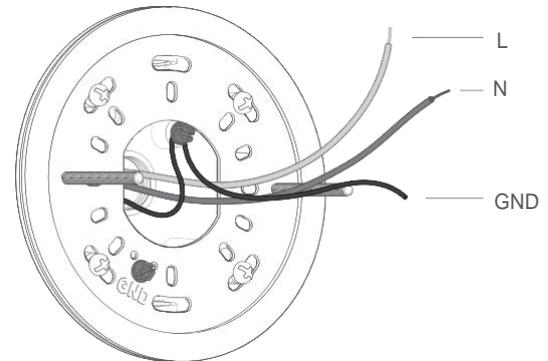
E. Use the provided hook to hang floodlight cam from the bracket while connecting the wires.

Black:L
White:N
Copper:GND
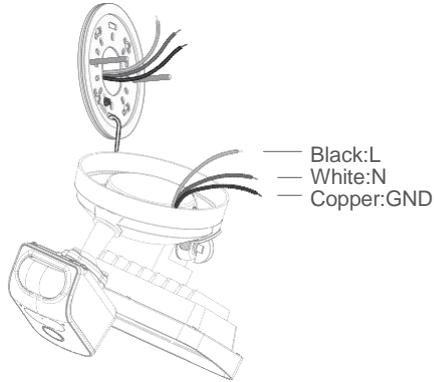
F. Use a wire nut to connect the white wire to the neutral wire coming out of your junction box.
The black wire from the floodlight cam is a hot wire. Connect this wire to the hot wire coming out of your junction box using another wire nut.
Connect the ground wire to the green ground screw on the bracket and the existing ground wire inside your junction box. Use one of the supplied wire nuts if necessary.
(Black:L White:N Copper:GND)
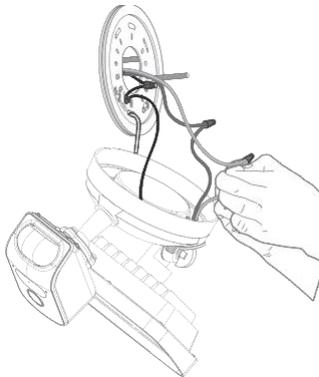
G. Carefully push all the wires through the large opening in the bracket. Align the mounting posts with the holes on floodlight cam and press together, securing the screw cap nuts with the screwdriver.
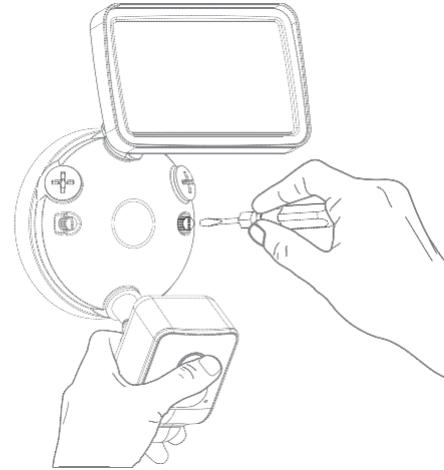
H. After finished floodlight mounting
Refer to the AI Floodlight Cam user manual to set up.
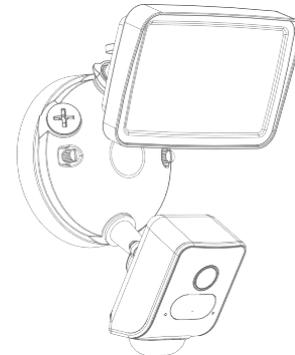
## 5   Technical Parameters

| Item | AI Floodlight Cam |
|---|---|
| Voltage input | (US)100-110VAC <br> (EU)220-240VAC |
| Frequency input | 50HZ /60HZ |
| Color temperature | 5000K |
| Light Output(Lumens) | 2150 (5000K) |
| Power | 24W |
| Power for the camera | 5V±5%@Max.500mA |
| Operation environment and protection | -20-50℃/IP55 |
| WiFi | 802.11 b/g/n |
| Box dimension | (L)205mm×(W)163mm×(H)200mm |
| Weight | 1050g |

\* Please follow the link: www.freecamglobal.com

for more FAQ(Frequently Asked Questions) solutions

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## 6   FAQ

### · Can I install a junction box myself?

If you do not have a junction box, you need to install one, we highly recommend that you engage a licensed electrician for installation. You'll need a 4-inch round waterproof junction box for use with this Floodlight Cam.