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C310 Solar Powered WiFi Camera

User Manual V3.1

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The C310 is a smart mobile wifi-camera which utilizes a solar power battery.

- **C310 has built-in solar panel and rechargeable battery that make the camera self sustaining with power. (Varying regions with different amounts of sunlight will affect the battery life)**
- **Using solar technology and low power consumption management, the C310 can operate for an extended time without recharging.**
- **The C310 is in low power when in sleep mode and recording when in active mode. It is in sleep mode by default but will switch to active mode and record when "woken up".**
- **The C310 can be manually "woken up" with one-click by a mobile phone anywhere.**
- **The C310 can be automatically "woken up" if it detects movement within its field of vision. In this case the camera will start to record automatically and the user will be alerted.**
- **Infrared LED lights provide clear visuals at night or low light situations as well.**

Exterior diagram

①	Infrared light	⑦	WiFi reset button
②	Photosensitive device	⑧	Charging socket
③	PIR sensor	⑨	Power supply switch
④	Lens	⑩	Mounting base bracket
⑤	Antenna		WiFi status indicator
⑥	Solar panel		Charging indicator

Indicator Light Status

Indicator light status	Status	Solution
Power,indicator green light	Solar charging indicator, brightness changs base on the solar radiant inersity	
Power,indicator yellow ligh	Power adapter charging indicator,it goes off after its fully charged	
WiFi indicator blue light blinks	Waiting for connecting	
WiFi indicator Red Light Blinks	Connecting to WiFi	If it blinks over 2 minute and still can't connect success, please reset device and check the router's WiFi signal
WiFi indicator off	Normal working or power off	

Accessories

①	Installation sticker x1	②	Mounting base bracket x1
③	Screw set x1	④	Charging cable
⑤	Operation instruction of the product x1	⑥	Zip tie x 2

Installation Illustration

1) Before installing the camera,please connect the USB cable to the camera and a DC5V/1A mobil phone adaptor, then charge the camera untill the charging indicator light goes off,For the first time please charege the camera over 6 hours.

2) There are at least two grids of signals.
a. Turn on the power button,blue light will be blinking,if it is not at this condition please press and hold the WiFi button for 3-5 seconds.
b. Following about APP configuration please refer to the APP installation instruction
c. The WiFi indicator light is off when configuration succeed than go to normal working condition.

The C310 can be mounted on a post or on a wall. The wall must be thick enough to hold three times the weight of the camera.

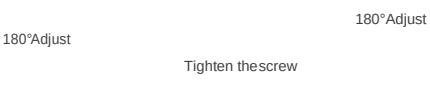
1) Prior to setup and selecting location of installation:
a. Select an area with sufficient sunlight. Ideally, position the camera under direct sunlight.
b. Avoid areas with moving objects that may disturb the camera.

2) Wall Mount Setup
a. Remove the sticker and place it on the wall, where you wish to setup your camera.
b. Drill holes in the 3 marked circles and insert the green expansion screw into the hole.
c. Align the holes of the mounting bracket with the expansion screws and secure the bracket into place. (See Fig. 1)
d. Install the camera onto the bracket and secure it in place the screw.

3) Post Mount Setup
a. Bind the mounting bracket onto the post or pole with the plastic ribbons and tighten them as much as possible. (See Fig.2)
b. Install the camera onto the bracket and secure it in place the screw.

4) Regional Sunlight Distribution (see Fig. 3). Identify the distribution of sunlight according to the region in which you are in. (You may need to regularly charge the camera for regions in which peak sunshine duration is within 1.0-2.9).

Note: Peak sunshine reflects the maximum solar irradiance that can be amassed – 1000 w/m2.



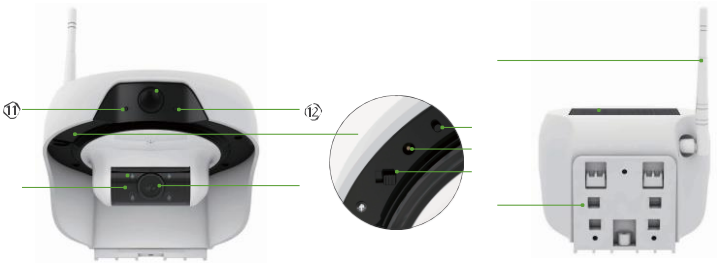
90°Adjust

Fig. 1

Adjust 90° up and down

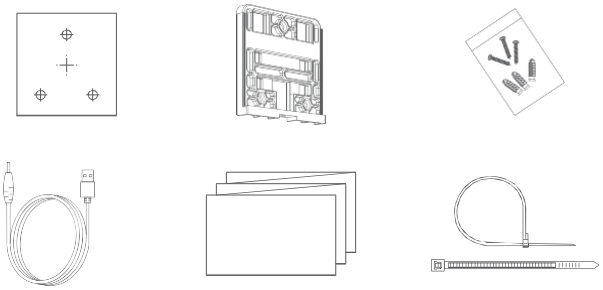
Tighten the screw

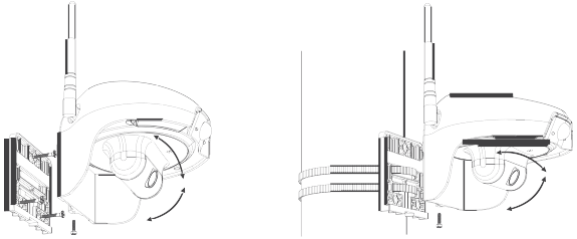
Fig. 2



⑪

⑫





5) Operation time of this camera is determined by amount of solar charging and the number of times the camera is triggered and awoken. Fig. 4 depicts the relationship between these factors. Refer to Fig. 4 to estimate the camera's continuous working time.

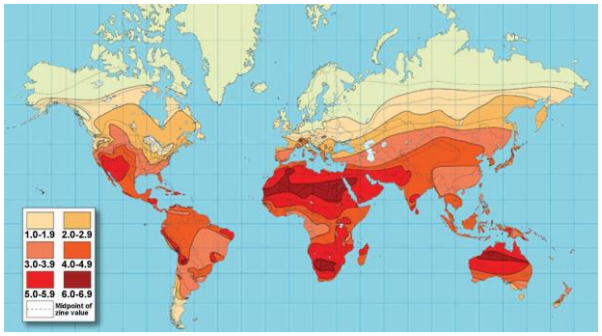


Fig. 3

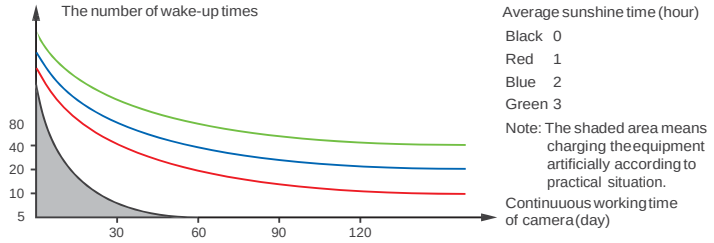


Fig. 4

5) Notes:

PIR sensor is a high-sensitivity detector which is used for infrared detection of object motion. However, motion detection can be triggered by the change of background lighting change, passing by vehicles or the blowing leaves.

Notice **If the camera detects false alarm frequently,you have option to turn off the motion detection function by selecting "security" option in APP and turn off the "motion detection" function in "Protection" menu.**

5 Technical parameters

Items	Specifications
Product model	C310 Solar Powered WiFi Camera
lens	3.6mm / M12/90 degrees
Video	H.264 encoding
Audio	support one-way audio
WiFi	Support IEE802.11b/g/n protocol(2.4GHz)
Infrared fill light	Support
PIR motion detection	Motion detect range ≈ 15 Feet (5 meters)
Cycle time	If there is no operation within 30 seconds after trigger is started, enter the sleep state
Network P2P Connection	Support
Battery power indicator	APP support
Standard solar panel	Maximum output current is 150mA@5.5V, which will change according to solar intensity and incident angle
Expandable storage space	Expandable storage space: Built-in 16GB Micro TF card
Standby Time	6,800mAh, up to 8 months based on 10 events per day.
Event Recording	Record up to 2500 event (30 sec) without charging.8 hours sunlight allows 480 event recording daily.
Dimension	7" X 7" X 8" (161 X 155 X 108 mm)
Net weight	1.7 Lb
Waterproof level	IP 55

FCC ID:2AJPAC310
FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

6 Common problems and solutions

Q: What do I do when I get error message when I try to add camera.

A: There are several causes leading to equipment adding failure:

① Time-out error during adding camera on the App.

Solution: If the WiFi status indicator blinks red over one minute, please press the reset button for 3-5 seconds until the WiFi status indicator becomes blinking blue, then confirm if the router signal is strong enough and input correct router password to re-add the camera.

② On some Android phones, App prompts a message "Please input the default password, 11111111"

Solution: The failure is caused by abnormal connection between mobile phone and camera hot spot.

Please access to WiFi setup interface of your mobile phone to connect to the camera hot spot "DOG-***" manually. Then return to the app to add the camera.

③ If this does not work, please turn off the mobile phone WiFi and turn it back on again. Repeat the above manual connection method to add the camera.

Q: What do I do if I did not receive the verification code when I signed up?

A: Please kindly check if your phone is out of service, If not, please reboot to try.

Q: What does it mean when the app says "network connection failure"?

A: There are several reasons for a network connection failure.

Two of the main reasons are that a user typed in the wrong password and there is a weak wifi signal. In some cases, a router has a special setting (such as hotels) where you need to log in to the company web page to verify portal to get access to internet. The camera won't work with this kind of router setting.

Q: My device keeps on going "offline".

A: 1) Please make sure the wifi password is correct.

2) Please make sure you have an internet access from your router.

3) Please check if wifi have special setting(such as hotels) need to log in to the web page to verify portal to get access to internet. This function is not available for now.

Q: I cannot connect to see the live video on my phone.

A: Please check the data traffic on the up right corner. If it is not 0Kb, and your app keeps on searching or cannot connect, this probably caused by short bandwidth of your internet service. (Please check with your internet provider to make your that you have at least 40kb/s feasible bandwidth).

Q: Can more than one person access the camera to view videos?

A: More than one person can access the camera to view live videos, BUT the camera would not allow more than one person to access the camera at the same time.

Q: My alarm does not work even after I clicked Protection.

A: Please check if your camera is on "At home" mode. If your camera is on "at home" mode,all device will be on the standby status where motion detection, message notification or recording function stops functioning.

Q: If device do not have TF card in it, will it record video?

A: Camera needs TF card to be able to record.

Q: How much data does my camera use?

A: Live video will need about 2Mb per minute. If you use audio function,it need about 0.4Mb more per minute.

Q: My app cannot find a camera.

A: Please make sure that wifi is connected on your phone.

Then check if the wifi indicator on your camera is blinking blue light. If not, please press the wifi set up button for 3 seconds until the wifi indicator light blinks.

Q: How long can TF card record?

A: If you use 16GB memory card, motion detection recording mode will last a year based on 10 events a day.

*** Please follow the link: www.freecamglobal.com for more FAQ(Frequently Asked Questions) solutions**