

Solar Powered WiFi Bird Box Camera

[WiFi camera App Setup \(QR Code Mode\)](#)

[WiFi camera App Setup \(AP Mode\)](#)

Technical Specification

Camera Resolution: 1080p Full HD

Video Compression: H.264

Lens: 4mm

Wireless Connectivity: 2.4GHz Wi-Fi (IEEE 802.11b/g/n)

Wireless Range: 20m range or more but can vary depending on your wifi signal strength

Night Vision: Yes, with infrared LEDs for up to 32 feet (10 meters) of visibility

Motion Detection: Yes, with adjustable sensitivity levels

Storage: Supports microSD cards up to 128GB (**not included**)

Power Source: Solar panel and rechargeable battery

Solar Panel Output: 5V/1.5W

Camera battery 2 x 4500mAH batteries

Solar panel battery 6 x 2600mAH batteries

Camera charge time 8 hours with 5V 2A // 10 hours with 5V 1A

Solar panel charge time 18 hours with 5V 2A // 20 hours with 5V 1A

PIR detection Detects heat for more accurate detection

Wake up time <500ms

Power usage while in use 260mA/3.7V

Power usage when on standby 200uA/3.7V

Operating Temperature: -20°C to 50°C (-4°F to 122°F)

Weatherproof Rating: IP65 (suitable for outdoor use)

Mobile App Compatibility: iOS and Android

App Features: Live video streaming, playback, motion alerts, two-way audio

Running time: 84 hours of continuous running time.

Low Activity Usage

- 5 triggers a day will last 16 months
- 30 triggers a day will last 8 months
- 100 triggers a day will last 85 days

High Activity Usage

- 10 triggers per hour will last 850 hours / 35 days
- 25 triggers per hour will last 340 hours / 14 days
- 50 triggers per hour will last 170 hours / 7 days

Dimensions: H173 x W99 x D85 mm

Weight: 590g

Estimated Battery Life

Number of triggers	Camera only	Camera & Solar panel
5 per day	6 months	16 Months
30 per day	2 month	8 Months
100 per day	25 days	85 Days
10 per hour	250 Hours / 10 Days	850 Hours / 35 Days
25 per hour	100 Hours / 4 Days	340 Hours / 14 Days
50 per hour	50 Hours / 2 Days	170 Hours / 7 Days

Additional Information

How does the Green Feathers Solar Camera work? The Green Feathers Solar Camera harnesses solar energy through its built-in solar panel, which charges its internal battery. This battery powers the camera and enables it to capture and transmit video footage using low power WI-FI.

What is the purpose of a solar-powered camera? A solar-powered camera like the Green Feathers Solar Camera provides a sustainable solution for viewing nature both inside and outside of a bird box. It eliminates the need for constant battery replacements or wired power connections, making it ideal for remote locations or areas without easy access to electricity. Great flexibility and easy to set-up.

How long does the solar panel take to charge the camera? The charging time for the Green Feathers Solar Camera varies depending on the amount of sunlight available. Based on 4 hours a day of sunlight, the solar panel will take approx. 14 days to fully charge. Position the solar panel facing south to capture optimum sunlight. You can also power the solar panel with the USB cable, allowing you to fully charge the battery before mounting.

How is the camera powered during nighttime or cloudy days? The Green Feathers Solar Camera's battery stores energy from the solar panel, which can be used to power the camera during nighttime or cloudy days when sunlight is limited. The camera automatically switches to battery power when solar charging is not sufficient.

What is the range of the camera's WiFi connectivity? The best way to test the Wi-Fi connectivity is by going to the location where you want to use your camera and checking the strength of signal that you get on your mobile device. We recommend having at least 50% signal but you can test the signal by seeing how well it streams a HD video while on Wi-Fi.

As a guide 20m max, but this will vary depending upon many factors. This can be boosted using a WiFi extender (**not supplied**).

What is the storage capacity of the Green Feathers Solar Camera? The Green Feathers Solar Camera supports microSD cards up to 128GB (**not included**) for storage. This allows you to save a significant amount of video footage depending on the resolution and compression settings.

Is the camera weatherproof and suitable for outdoor use? Yes, the Green Feathers Solar Camera is weatherproof and designed for outdoor use (IP rating IP65). It is built to withstand various weather conditions such as rain, snow, and dust, ensuring reliable performance and durability.

How easy is it to install the Green Feathers Solar Camera? The Green Feathers Solar Camera is designed for easy installation. It comes with special mounting bracket and screws, allowing you to securely attach it to a wall, fence, or other surfaces. Also ¼ mounting screw means it's compatible with tripods and other industry standard camera mounts. Solar panel can wall mount OR ground mount.

Solar battery systems can have their challenges, and we want to provide a realistic perspective to ensure your expectations are met. Some of the hurdles include:

Battery life of around 32 + 52 hours (Camera + Solar Panel) so a potential of 84 hours, slightly limited compared to standard powered cameras. 84 hours can easily be taken up in recordings over a busy breeding period.

Solar panels can take up to 14 days to fully charge the internal battery, providing an additional 36 hours of power.

Positioning constraints, solar panels require unobstructed sunshine facing south, which can be challenging when mounting the system on a tree.

Battery-powered cameras may have a delay in triggering and starting recording, potentially causing you to miss some significant moments, unlike powered cameras with a "pre-record" function.