



Parrot[®] FLOWER POWER

User guide

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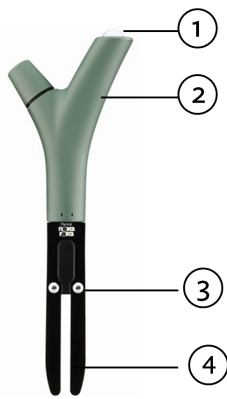
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Before you begin

Note: For the purpose of readability, devices compatible with the Parrot Flower Power (smartphones, tablets, iPod touch) shall be designated by the term "smartphone" in this manual.

Description

The Parrot Flower Power comprises of four sensors.

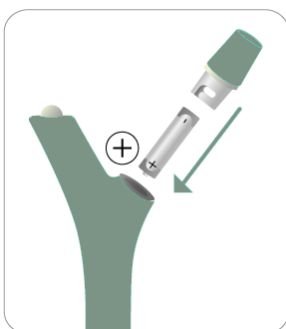


| Sensor | Allows you to... |
|--------|--|
| 1 | measure light intensity to establish whether your plant needs more or less sun. |
| 2 | measure the ambient temperature to establish if you should place your plant in a warmer / cooler location. |
| 3 | measure the level of fertilizer required via the soil composition. |
| 4 | measure the moisture level of the soil to establish if you need to water your plant. |

Compatibility

In order to use the Parrot Flower Power, your smartphone must support *Bluetooth*® 4.0 and must be connected to the internet. Please refer to the [iDevices compatibility page](#) on our website for more information.

Installing the Parrot Flower Power



Insert the AAA battery provided positive side down into the specific battery compartment. The light located on top of the Parrot Flower Power flashes green indicating the unit is turned on.

Use a non-rechargeable Alkaline AAA battery 1.5V only.

The battery power can last up to 6 months.

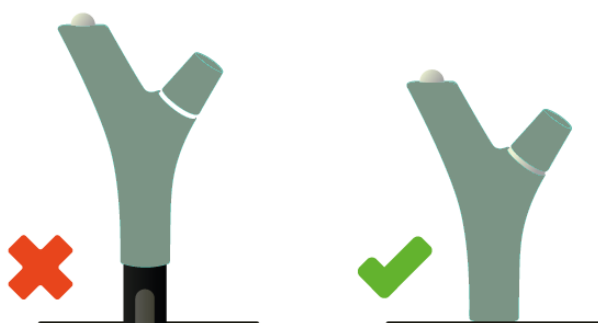
Make sure data are synchronized before changing the Parrot Flower Power battery. Removing the Parrot Flower Power battery deletes all unsynchronized data.

Select one of your plants and a location where the light sensor of the Parrot Flower Power will not be hidden or covered by leaves.



Note: Make sure the Parrot Flower Power is placed on the side of the plant that is the closest to the source of light.

Insert the Parrot Flower Power vertically into the soil until the metal forks are completely submerged.



Note: When you first install the Parrot Flower Power into the soil, it is good practice to water your plant immediately, as this will remove any air pockets that were created when the device was inserted.

Application download



Login to the App StoreSM and download the free Parrot Flower Power application.

Using the application

Note : Most of the features described in the following sections are also available on our Parrot Flower Power website : <https://myflowerpower.parrot.com>. To log in, use the same email and password you use to log in to the Parrot Flower Power application.

Creating an account

1. Open the Parrot Flower Power application.
2. Tap **Sign up**.
3. Enter your email address, password and username.
4. Tap **Done**.


Connecting a smartphone to a Flower Power

The Parrot Flower Power supports *Bluetooth* Low Energy. Consequently it will not be displayed among the usual *Bluetooth* peripherals list on your smartphone. You can only see it using the Parrot Flower Power application. To connect your smartphone to a Parrot Flower Power :

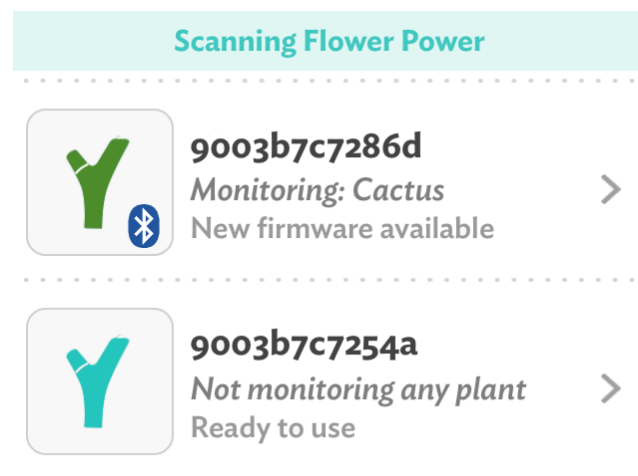
1. Make sure you are at a distance inferior to 10 meters to the Parrot Flower Power .
2. Activate the *Bluetooth* feature on your smartphone.
3. Launch the Parrot Flower Power application.

> The application scans the area. The digit located next to the **Flower Power** **Y**¹ icon indicates the number of available Parrot Flower Power.



4. Tap **Flower Power** **Y**.

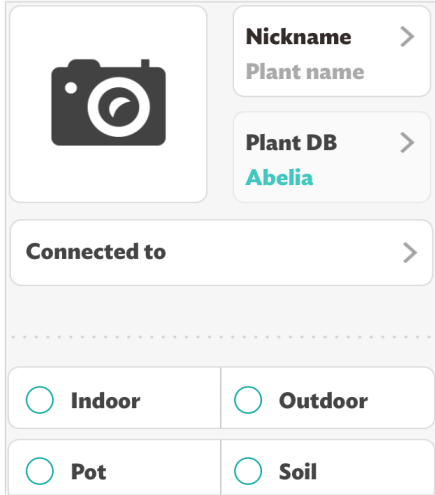
> The list of available Parrot Flower Power and their status, color and serial number is displayed. The  icon means the Parrot Flower Power is already connected to your smartphone. A grayed Parrot Flower Power means that it has already been linked to a Parrot Flower Power application account.

5. Select the Parrot Flower Power you want to connect to your smartphone.



Linking a plant to a Flower Power


1. Activate the *Bluetooth* feature on your smartphone.
2. Launch the Parrot Flower Power application.
3. Tap *My garden* .
4. Tap **+** on the top right of the screen.
5. Enter the required information :
 - tap the  button then select *Take a picture* or *Choose from Camera Roll* to add or change the plant picture ;
 - tap *Nickname* to enter another plant name (to distinguish several plants of the same type) ;
 - tap *Connected to* then select a Parrot Flower Power to link it to a plant ;
 - specify the plant environment ;
 - tap *GPS position* to assign a location to the plant.
6. Tap *Create plant*.




The screenshot shows a form for creating a plant entry. It features a camera icon on the left. To its right are two dropdown menus: 'Nickname' with the subtext 'Plant name' and 'Plant DB' with the value 'Abelia'. Below these is a 'Connected to' dropdown menu. At the bottom, there are four radio button options: 'Indoor', 'Outdoor', 'Pot', and 'Soil'.

After making a connection between a plant and a Parrot Flower Power, you will have to wait for approximately 24 hours to allow the Parrot Flower Power to analyze enough data and give you some advice.

Accessing the Flower Power Library

In order to access the Flower Power Library which comprises of more than 7000 plants, trees and vegetables, tap *DB Plant* . All listed plants are displayed.


The plants list contains 2 or 3 pieces of information:

| | | |
|---|-----------------------------|----------------------------|
|  | Impatiens | Common name |
| | <i>Impatiens Walerriana</i> | Scientific name (in latin) |
| | Rockapulco Purple | Variety (optional) |








To browse through the plants list:

- slide your finger downwards / upwards ;
- press the vertical letters list and slide your finger downwards / upwards ;
- use the search bar.


You can also select one or several criterias :

1. Tap the  button.
2. Select criteria such as the blooming season of your plant, its height or its shape.
 - > The number of plants answering the criterias is displayed on the bottom right of the screen.
3. Press the > to get to the plants list.

Tap a plant to consult its details, descriptions and needs.



| Type | | |
|---|----------------|-----------------------|
|  | Edible | <input type="radio"/> |
|  | Grass | <input type="radio"/> |
|  | Interior plant | <input type="radio"/> |
|  | Shrub | <input type="radio"/> |
|  | Tree | <input type="radio"/> |
|  | Vine | <input type="radio"/> |
| Plant Shape | | |
|  | Irregular | <input type="radio"/> |

Managing the garden

Tap **My garden** . The list of plants you created is displayed.




Tap the  button to display the plants geolocations.





The  icon indicates that the plant is currently being controlled by a Parrot Flower Power. A  indicates that the plant is not being controlled.

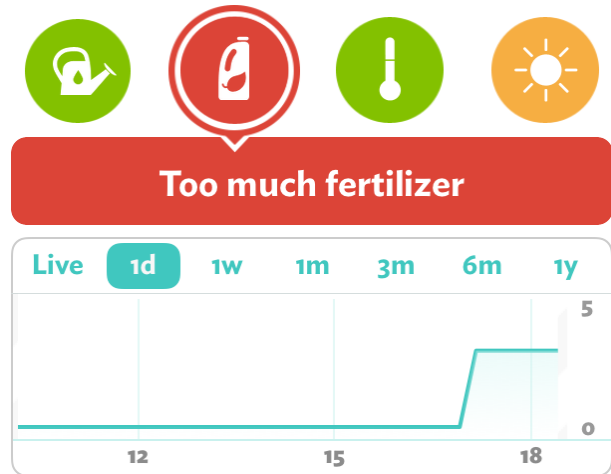
Tap a plant, then the  button on the top right of the screen to change its information.

Tap the  button on the top left of the screen to remove the plant from your garden.

Consulting the plant data

1. Tap **My garden** .
2. Select a plant.
3. Select one of the 4 data to display the corresponding graph:

-  soil moisture level,
-  fertilizer level,
-  temperature ,
-  light intensity .



The icons color indicates whether an action from your side is necessary and its criticality level.

4. Select the data periodicity. If you selected a plant being currently controlled by a Parrot Flower Power and if you are located next to it, press **Live** to display your data in real time.

Note : Real time display is available for soil moisture, temperature and light intensity.

Data synchronization

Data synchronization is a very important step allowing your plant data to be sent and analyzed on our servers using your smartphone internet connection.

To allow data synchronization, your smartphone needs an internet connection (3G or Wi-Fi) and *Bluetooth* must be activated.

Synchronization takes several steps:

- Sending your plant data from the Parrot Flower Power to your smartphone (via *Bluetooth*) ;
- Sending your plant data from your smartphone to our servers (via an internet connection) ;
- Data analysis on our servers ;
- Sending the analysis results to your smartphone (via an internet connection).




Sending your plants data from the Parrot Flower Power to your smartphone can only be done when you are close to the Parrot Flower Power (generally less than 10 meters).

If you do not have an internet connection next to your Parrot Flower Power, synchronization can be done in 2 steps : first sending the plant data from the Parrot Flower Power to your smartphone (when you are next to it), then sending the data from your smartphone to our servers (when you have an internet connection).

Synchronization duration depends on the unsynchronized data (and thus on the time elapsed since last synchronization).

Automatic synchronization occurs every 2 hours. You can also perform a manual synchronization. To do so:


1. Tap **My garden** .
2. Select a plant.
3. Slide your finger downwards.


Note : Manual synchronization can be performed every 15 minutes.

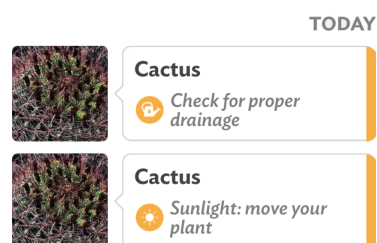
Note : Make sure data are synchronized before changing the FP battery. Removing the FP battery deletes all unsynchronized data.

Checking the alerts

Once synchronization is complete, an alert is sent to your smartphone if your plant needs water, fertilizer, shade or sun.

The digit located next to the **To do**  icon corresponds to the number of necessary actions to be performed on this day.

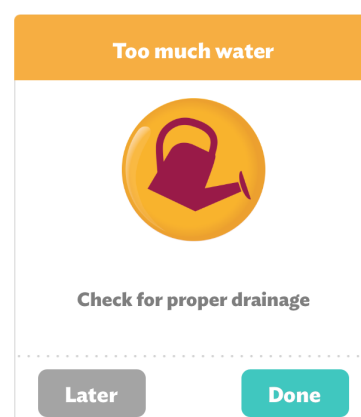
Tap **To do**  to display the list of alerts. The icon colour corresponds to the criticality level of the alert.



Tap an alert to read more about it or/and to change its status.

If the action is already completed, tap **Done**. To postpone the action, tap **Later**.

Note : If the Parrot Flower Power detects that the action is completed, the alert will be automatically removed after a few hours (for fertilizer and moisture alerts) or a few days (for light and temperature alerts).



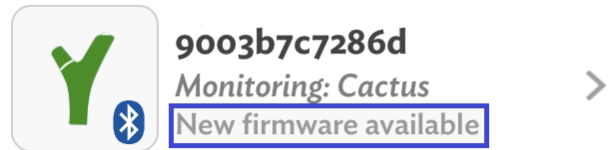
Disconnection

To sign out of the application, tap **Settings** ⚙️ > **Logout**.

Flower Power software update

Parrot Flower Power software updates availability is indicated via a pop-up or on the **Flower Power Y** menu.

To perform a Parrot Flower Power software update, your smartphone needs an internet connection (3G or Wi-Fi) and *Bluetooth* must be activated.

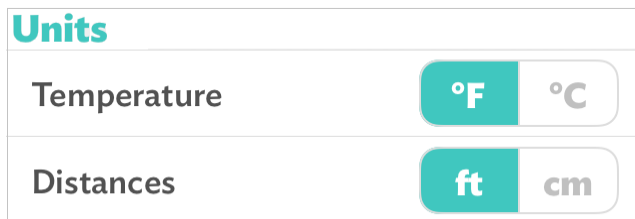


Settings

Unit measurements

You can modify the unit measurements used for temperature and distance. To do so, tap **Settings** ⚙️, then:

- select °F for Fahrenheit or °C for Celsius;
- select Ft for feet or cm for centimetres.



Privacy settings

You can choose to share your GPS position and the photos of your plants with people who have the Flower Power application. To do so, tap **Settings** ⚙️ and set the **GPS, photos** mode on **Public**.

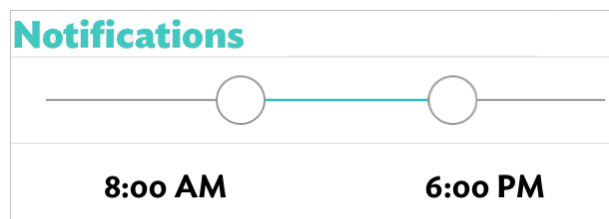
Your plants will then be visible by other Parrot Flower Power users when they will tap 🌐.

Note : This feature will be made available soon.

Notification settings

You can choose to receive alerts only during certain periods of time in a day. To do so:


1. Tap **Settings** ⚙️.
2. Move the **Start / End** cursors to set the time when you want the alerts to start / stop being sent.



Background uploads

Automatic data synchronization occurs every 2 hours. To reduce your smartphone battery consumption, you can disable this automatic synchronization. To do so, tap **Settings** ⚙️ and disable the **Background uploads** option.

Clearing the application cache memory

If you encounter problems while using the application, tap **Settings**  then **Clear cache**. Previously downloaded data (graphs, pictures...) will be erased then downloaded again when you log in again.

General information

Enter topic text here.

Maintenance and precautions

Use a non-rechargeable Alkaline AAA battery 1.5V only.

Avoid an extended immersion of your Parrot Flower Power.

Loosen hard soils before inserting the Parrot Flower Power in the ground. If you encounter soil resistance, do not hesitate to move the product.

Do not drop the Parrot Flower Power on hard surfaces or concrete floors.

Never use the Parrot Flower Power near current conducting components.

Return used batteries to designated collection points.

Risk of explosion if battery is replaced by an incorrect type. Discard empty battery according to the instructions.

Technical specifications

Operating temperature: from -10°C to 55°C

IP rating: IPx5 and IPx7

Warranty

Without prejudice of legal warranty, Parrot contractually warrants during 12 months from the date of initial purchase by the consumer (except wearing parts guaranteed for 6 months) that the product is free from defects in materials and workmanship, upon presentation of proof of purchase (date, place of purchase, serial number of the product) to the retailer or Parrot. During the contractual warranty period, the defective product must be returned in its original packaging to the after-sales service of the retailer. After inspection of the product, Parrot will proceed, at its option, to the replacement or the issue a credit note to the exclusion of any other remedy.

Warranty does not cover: upgrading of the software items of the Parrot products with Bluetooth cell phones for compatibility purpose, data recovery, deterioration of the external aspect due to normal wear of the product, any damage caused by accident, misuse, misapplication, or non-Parrot products.

Parrot is not responsible for storage, loss or damaged to data during transit or repair. Any product wrongfully declared to be defective will be returned to sender and inspection, process

and carriage costs will be invoiced to him.

Modifications

The explanations and specifications in this guide are given for information purposes only and may be modified without prior notice. They are deemed to be correct at time of going to press. The utmost care has been taken when writing this guide, as part of the aim to provide you with accurate information. However, Parrot shall not be held responsible for any consequences arising from any errors or omissions in the guide, nor for any damage or accidental loss of data resulting directly or indirectly from the use of the information herein. Parrot reserves the right to amend or improve the product design or user guide without any restrictions and without any obligation to notify users. As part of our ongoing concern to upgrade and improve our products, the product that you have purchased may differ slightly from the model described in this guide. If so, a later version of this guide might be available in electronic format at Parrot's website at www.parrot.com.

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Declaration of Conformity

Parrot S.A. of 174 quai de Jemmapes, 75010 Paris, France, declare under our sole responsibility that our product, the Parrot Flower Power to which this declaration relates are in conformity with technical standards EN300328 (v1.8.1), EN301489- 1 (v1.9.2) / EN301489-17(v2.2.1), EN60950-1: 04/2006 / A11: 2009 / A1: 2010 / A2: 2011, EN 62321: 2009 following the provision of the R&TTE 1999/5/EC directive, the 2006/95/CE directive, and the RoHS 2011/65/CE directive.