

# Parrot<sup>®</sup> MINIDRONES

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## ROLLING SPIDER



User guide



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# Before you begin

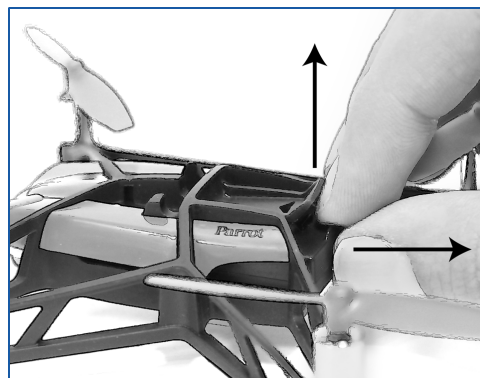
*Note: For easy reading, iPhone®, iPad® and other compatible telephones or tablets are referred to as 'smartphones' in the manual.*

## Charging the battery

1. Insert the battery into the battery compartment.
2. Connect the Parrot Rolling Spider to your computer using the USB/micro-USB cable provided.
  - > The right-hand LED of the Parrot Rolling Spider lights up in red to show that the battery is being charged. The LED turns off when the battery is fully charged. The battery takes about 1 hour 30 minutes to charge.



To remove the battery, lift the black part located above it.



## Switching on the Parrot Rolling Spider

Insert the battery into the battery compartment or tap on the On/Off button to switch on the Parrot Rolling Spider.

The On/Off button is located under the Parrot Rolling Spider, below and to the right of the vertical camera.



## Compatibility

To use the Parrot Rolling Spider, you must have a smartphone or a tablet that supports Bluetooth® 4.0.

For further information see the [Apple](#) or [Android](#) compatibility page on our website.

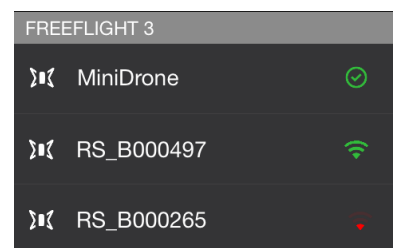
## Downloading the application

Connect to App Store<sup>SM</sup> or Google Play<sup>TM</sup> and download the free FreeFlight 3 application.



## Connecting a smartphone

As the Parrot Rolling Spider supports Bluetooth Low Energy, it will not appear in the usual list of *Bluetooth* devices displayed on your smartphone. You can only see it and connect to it via the FreeFlight 3 application.

1. Insert the battery into the battery compartment.
2. Place the Parrot Rolling Spider on the ground and wait until its LEDs turn green.
3. Activate *Bluetooth* on your smartphone.
4. Start the FreeFlight 3 application.
  - > The list of MiniDrones located near your smartphone appears.



> Your smartphone automatically connects to the last MiniDrone to which it was connected. It connects to the nearest MiniDrone by default.

- The icon  shows the currently connected MiniDrone.
- The icon  shows the *Bluetooth* connection status between your smartphone and the Parrot Rolling Spider. The number of bars is proportional to the quality of the connection.

5. If required, select another MiniDrone to connect to it.

*Note: The first 2 characters of the default name on the device correspond to the initials of the type of MiniDrone (Rolling Spider or Jumping Sumo). The third character corresponds to the color of the device (Blue/White/Red).*

## Fitting the wheels

The wheels of the Parrot Rolling Spider protect it in the event of a collision. They also allow it to roll along the ground, the walls and the ceiling.

1. Clip the 2 wheels to the central axle.
2. Insert the axle in the top of the Parrot Rolling Spider.
3. Clip the locking lever.

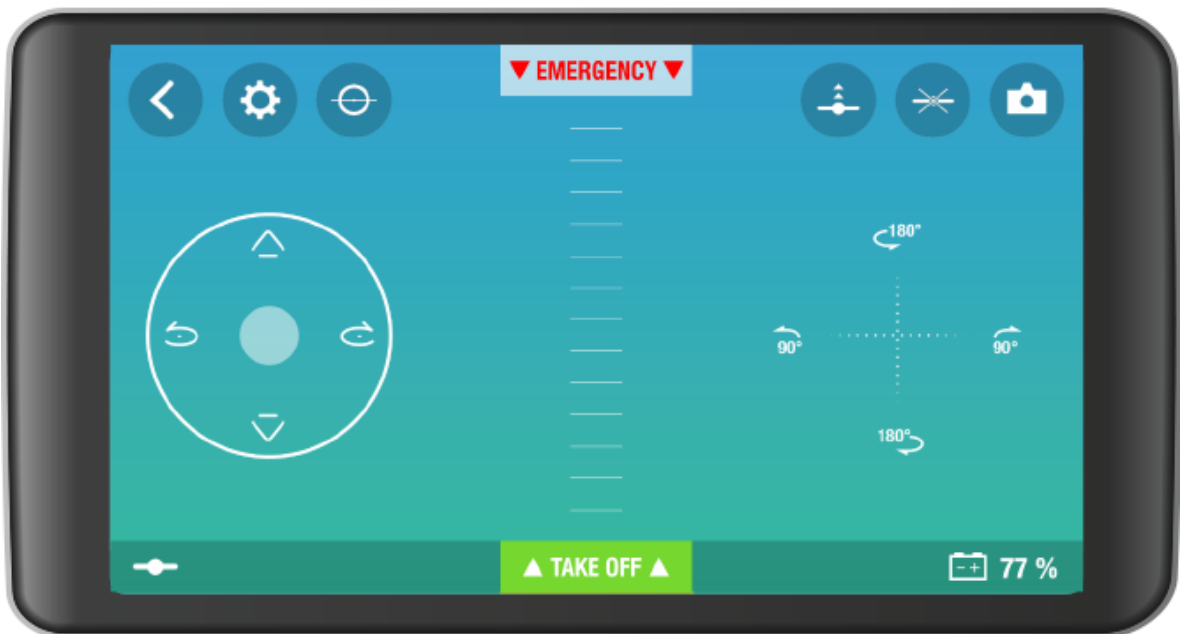
To remove the protective cage, push the locking lever to the right.

*Note: If you are using the Parrot Rolling Spider with its wheels, make sure that the [Wheels](#) option has been activated. See the [Settings](#) section for further information.*




# Flying

Start the *FreeFlight 3* application, then press **FREE FLIGHT** to fly the Parrot Rolling Spider.




## Flat trim

Before take-off (especially after a shock or a fall) always make sure that the Parrot Rolling Spider is placed on a flat surface and tap on .

## Take off

Place the Parrot Rolling Spider on a flat, dry, unobstructed surface then press **Take Off**. You can also make the Parrot Rolling Spider take off without putting it on the ground. To do so:

1. Tap on .  
> The Parrot Rolling Spider LEDs flash green and red quickly.
2. Launch the Parrot Rolling Spider forwards or upwards or withdraw your hand to let it drop.

> The Parrot Rolling Spider propeller motors start automatically.

## Movements





*Note: Movement depends on the status of the Wheels, Ace and Joypad options. See the Settings section for further information. The description below applies when the Ace, Joypad, Wheels and Left-handed options are deactivated (default configuration).*

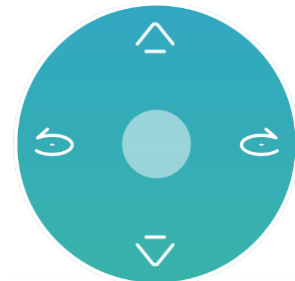
Right joystick:

- Hold the center button and tilt the smartphone forwards or backwards to fly the Parrot Rolling Spider forwards or backwards.
- Hold the center button and tilt the smartphone to the left or right to fly the Parrot Rolling Spider to the left or right.




Left joystick:

- Use the  or  buttons to rotate the Parrot Rolling Spider to the left or right.
- Use the  and  buttons to fly the Parrot Rolling Spider upwards or downwards.



## Pre-programmed acrobatics

1. Tap on .
2. Select the type of acrobatics you want to perform.
3. Tap your smartphone screen twice to perform the selected acrobatics.




## Battery

This icon  shows the battery charge level of the Parrot Rolling Spider.

The Parrot Rolling Spider has a battery life of about 8 mins. The LED turns red when the battery is low. When the battery level is too low, you will be asked to land the Parrot Rolling Spider. If you do not, the Parrot Rolling Spider will land automatically.



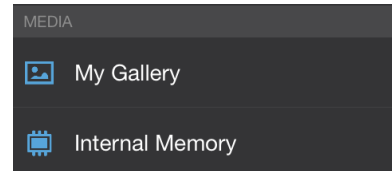
## Photos

Tap on the  button to take a photo when using the vertical camera of the Parrot Rolling Spider. The photo is saved in the memory of the Parrot Rolling Spider.

You can save several hundred photos in the memory of the Parrot Rolling Spider. You will no longer be able to take a photo when the memory is full.

To delete photos or transfer them to your smartphone memory:

1. In the FreeFlight 3 application context menu, tap on [Internal memory](#).  
> A list of the photos saved to the memory of the Parrot Rolling Spider appears.
2. Select the photos and tap on [Delete](#) or [Transfer](#).




You can also recover or delete them by connecting the Parrot Rolling Spider to your computer using the USB/micro-USB cable provided. In order to do so, the battery of the Parrot Rolling Spider must be in place.

## Landing

Ensure that the Parrot Rolling Spider is over a flat, dry and unobstructed surface, then tap on [Landing](#) to make the Parrot Rolling Spider land.

Do not press [Emergency](#) except in an emergency. The motors will cut out and the Parrot Rolling Spider will drop from the height at which it is located. Landing is sufficient in most cases.

# Settings

Tap on  for access to the settings menu of the Parrot Rolling Spider.

At any time you can tap on  to reset the device to its factory settings.

## Maximum altitude

The [Maximum altitude option](#) limits the maximum altitude that can be reached by the Parrot Rolling Spider. When the Parrot Rolling Spider is about to exceed this limit, it automatically drops down to the selected height.

## Maximum tilt

The [Maximum tilt](#) option defines the maximum tilt angle of the Parrot Rolling Spider while moving backwards or forwards.

If this value is set high, the pitch angle of the Parrot Rolling Spider will be greater. If this value is set low, the pitch angle of the Parrot Rolling Spider will be smaller.





***Note:** This setting affects the acceleration. With a greater angle of pitch, the Parrot Rolling Spider will accelerate faster.*

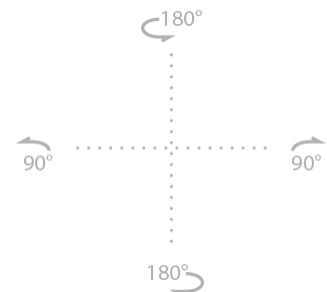
## Left-handed mode

The [Left-handed mode](#) option reverses the controls on your smartphone.

## Ace mode

In [Ace](#) flying mode, the basic commands are controlled by the left joystick. This mode gives you access to the swipe buttons on the right joystick for performing 1/4 and 1/2 turns.


- Swipe towards  or  to perform a 1/4 turn to the left or right.
- Swipe towards  or  to perform a 1/2 turn to the left or right.



## Joypad mode

The **Joypad** flying mode deactivates the use of your smartphone accelerometer to fly the Parrot Rolling Spider.



By deactivating accelerometer flying, you can film the Parrot Rolling Spider with your smartphone camera while flying the device.

To do so, tap on . Videos are automatically saved in the gallery.



When flying the Parrot Rolling Spider in **Joypad** mode, a 2<sup>nd</sup> joystick replaces the accelerometer button.

- Drag the joystick upwards or downwards to fly the Parrot Rolling Spider forwards or backwards.
- Drag the joystick to the right or left to fly the Parrot Rolling Spider to the right or left.

## Maximum vertical speed


The **Maximum vertical speed** option sets the maximum speed of upward and downward movement of the Parrot Rolling Spider when you tap on the  or  buttons.

## Maximum rotation speed

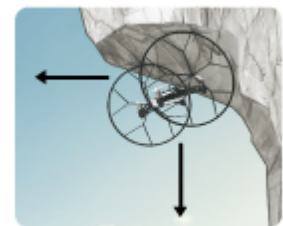
The **Maximum rotation speed** option sets the maximum rotation speed of the Parrot Rolling Spider when you tap on the  or  buttons.

## Wheels

Activate the **Wheels** option when you have fitted the wheels to the Parrot Rolling Spider.

The icon  in the lower left hand part of the screen shows the status of the **Wheels** option.

When the **Wheels** option is activated, drag the joystick forwards and to the left while moving the Parrot Rolling Spider forwards to accelerate. Drag the joystick backwards to brake.



## Cut out

The **Cut out** option stops the motors if the propellers of the Parrot Rolling Spider undergo a protracted shock. This option is deactivated by default, but should be used by novice pilots.

*Note : The **Cut out** option is activated by default when the **Wheels** option is activated. Disabling the **Cut out** option is not possible when the **Wheels** option is disabled.*

## Network name

The **Network name** option changes the name by which the Parrot Rolling Spider will be seen by your smartphone via the FreeFlight 3 application. The name change will only take effect after restarting the Parrot Rolling Spider.

**Note:** *The network name of the Parrot Rolling Spider can only contain letters, numerals and underscores (" \_ "). It must not exceed 32 characters in length.*

## Versions

The **General information** screen displays:

- the version number of the FreeFlight 3 application installed on your smartphone;
- the version number of the firmware installed on your Parrot Rolling Spider;
- the hardware version of your Parrot Rolling Spider.

# Updating

Tap on [Check for Updates](#) to check if any updates are available for the Parrot Rolling Spider.

There are 2 ways to update the Parrot Rolling Spider:

- via USB, by [downloading the update file from our website](#). This method takes about 3 mins but requires a computer.

*Warning: Ensure that the battery of the Parrot Rolling Spider is in place and fully charged before updating via USB.*

- via the application. This method takes about 35 mins.

# General information

## Safety precautions and maintenance

The Parrot Rolling Spider is not suitable for use by children under 14 years of age.

The Parrot Rolling Spider is a model aircraft designed only for recreation, entertainment, and competitions between model aircraft. The pilot must directly control the flight path of his or her Parrot Rolling Spider at all times in order to avoid any obstacles, and must take care only to use it in suitable locations chosen to ensure that people, animals and property remain safe at all times.

The use of the Parrot Rolling Spider in some public areas (for instance train stations, trains, airports, aircrafts, etc.) may be prohibited. You should check whether the use of the Parrot Rolling Spider is permitted before using it in public areas or public transport.

To fly the Parrot Rolling Spider indoors install the wheels in order to protect the Parrot Rolling Spider in case of collision with any object. When rotating, the propellers of the Parrot Rolling Spider could cause injury to people, animals and property.

You should not touch the Parrot Rolling Spider when propellers are rotating and should wait until the propellers have completely stopped before handling the Parrot Rolling Spider.

Do not use spare parts and accessories other than those specified by Parrot.

The Parrot Rolling Spider may be irreversibly damaged if you allow sand or dust to penetrate it.

Keep the Parrot Rolling Spider away from high voltage power lines, trees, buildings and any other potentially dangerous or hazardous areas.

Do not use the Parrot Rolling Spider in wet conditions. Do not land the Parrot Rolling Spider on water or on a wet surface. This could result in irreversible damages.

Avoid subjecting the Rolling Spider to aggressive altitude changes.

Do not leave the Parrot Rolling Spider in direct sunlight for long periods.

Use the Parrot Rolling Spider in respect of people 's privacy. Do not record and/or circulate any person 's picture without their consent.

Small parts may be swallowed. All materials for fastening or packing purposes are not part of the product and should be discarded for children's safety.

## Warranty

Without prejudice to any applicable statutory warranty, Parrot warrants that the Parrot Rolling Spider will be free from defects in material and workmanship for a period of 12-months from the initial date of purchase (excluding consumables which are warranted during 6 months from the initial date of purchase) upon presentation of proof of purchase to the retailer or to Parrot (including the date and place of purchase, product serial number). Return to retailer is not applicable in the USA - return shall be made to Parrot. During the contractual warranty period, any defective product should be returned in its original packaging to the retailer's or Parrot's after-sales service. After inspection of the product, Parrot will, at its sole discretion, either repair or replace the defective part or product, excluding any other indemnification of any nature. Parrot's warranty does not cover: defects due to damage caused by an accidental collision or fall; defects due to abnormal use of the product or if spare parts have been installed without following the recommendations and instructions provided by Parrot in this guide or on [www.parrot.com](http://www.parrot.com) or if the Parrot Rolling Spider has been customised by the end-user; defects caused by repairs carried out by the end-user or an unauthorised third party, except spare parts provided by PARROT; defects due to the use of spare parts not provided by PARROT in the original packaging, the use of spare parts not approved by Parrot, in particular, the use of batteries not approved by Parrot; defects caused by any reason other than a defect in material or workmanship the gradual power loss of the Parrot rechargeable battery (086x) over time, which does not constitute as a defect in material or workmanship, If upon technical tests being carried out any product is found non defective we reserve the right to return such product to the sender at the sender's cost and to levy a charge to cover Parrot's technical test fees. Upon expiration of the 12-month warranty period or if the defect is not covered by the warranty, any defective product can be returned to Parrot's after-sales service in order to be repaired or for a defective part to be replaced at the sender's costs. Repair will be carried out only after acceptance of the corresponding quotation. Except in relation to consumables, spare parts are subject to a 12 month warranty and are subject to the same terms and conditions as those described above. The warranty does not cover: damage to non Parrot products, including devices used to operate the Parrot Rolling Spider.

## 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](http://www.parrot.com).

## Disposal of this product at the end of its life

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

## Declaration of Conformity

Parrot SA, 174 quai de Jemmapes, 75010 Paris, France, declare under their sole responsibility that the product described in this user guide complies with technical standards EN 301489-17, EN300328, EN71-1, EN71-2, EN71-3, EN62115 following the provision of the Radio Equipment, Telecommunication Equipment directive (1999/5/EC R&TTE), and of the General Safety directive (2001/95/EC).

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