Parrot
MINIDRONES
JUMPING SUMO

User guide

BC

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Before starting

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, label side downwards.
2. Connect the Parrot Jumping Sumo to your computer or to a USB charger using the USB/micro-USB cable supplied.
   > The light located next to the ⏻ button (indicated by an arrow on the image below) lights up in red to indicate charging. The LED turns green when the battery is fully charged.
   The battery takes about 1 hour 30 minutes to charge.

To remove the battery:

1. Slightly lift the plastic part surrounding the battery.
2. Use the clips on the rear of the battery to help pull it out.

Note: In order to ensure effective maintenance of the battery on the Parrot Jumping Sumo,never leave the battery partly installed in the compartment.

Switching the Parrot Jumping Sumo on and off

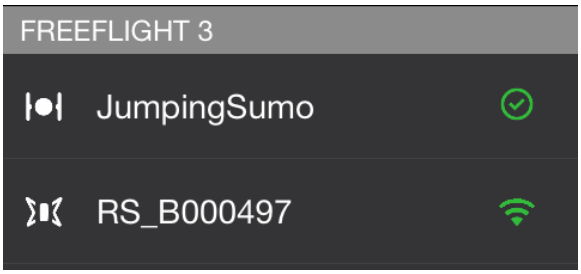
Insert the battery into the battery compartment or press the ⏻ button to switch the Parrot Jumping Sumo on. Wait until the Parrot Jumping Sumo indicates that it is ready to be used and its LED eyes turn green.
Press the ⏻ button to switch the Parrot Jumping Sumo off. The LED eyes switch off.

Downloading the application

Connect to the App Store℠ or Google Play™ and download the free **FreeFlight 3 application**.

Connecting a smartphone

1. Switch the Parrot Jumping Sumo on.
2. On your Smartphone, launch a search of the Wi-Fi® networks available:
   - if you are using an iPhone or an iPad, select Settings > Wi-Fi
   - if you are using an Android™ smartphone, select Settings > Wireless and networks > Wi-Fi.
3. Select the network: JumpingSumo_xxxxx.
4. Wait for your smartphone to connect to the Wi-Fi network of the Parrot Jumping Sumo. This connection is generally represented by the Wi-Fi logo appearing on the smartphone screen.
5. Start the FreeFlight 3 application.
   > A list of the MiniDrones located near your smartphone appears.
   > The connection between your smartphone and the Parrot Jumping Sumo is established automatically.



See the Settings > Wi-Fi section for further information.

Piloting

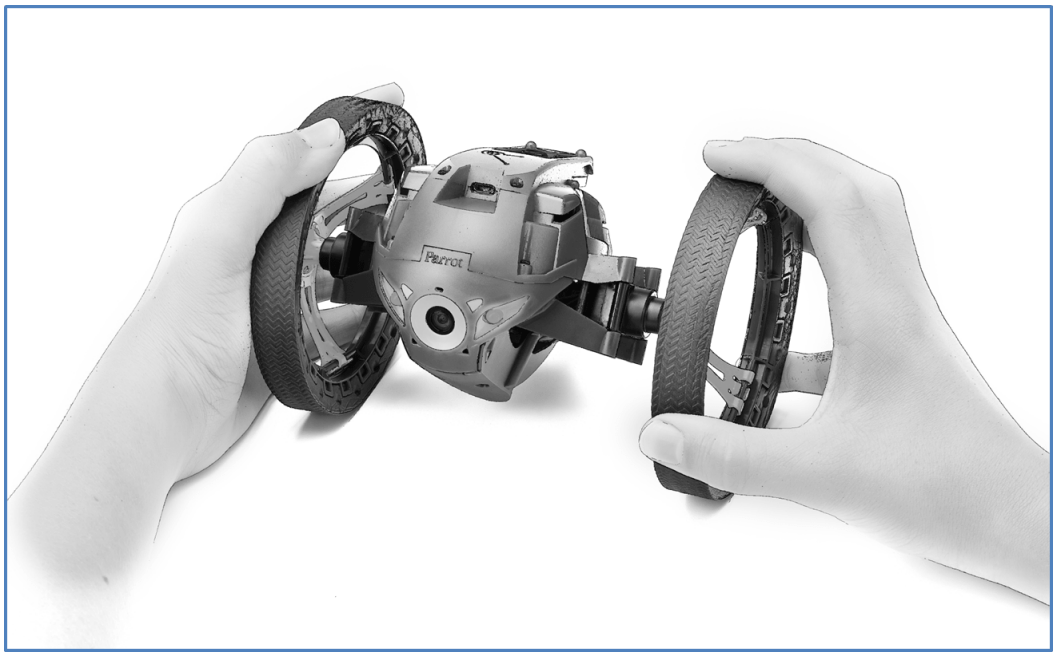
Start the FreeFlight 3 application then press FREE RIDE to pilot the Parrot Jumping Sumo.

At any time you can press < to return to the main menu.

Piloting mode

Before you start, choose the piloting mode of the Parrot Jumping Sumo :

- by bringing its wheels together, you are opting for responsive piloting and will be able to weave in and out everywhere more easily
- by separating its wheels, you are improving its stability.



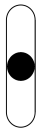
Positions

Press the key to switch to Jumper or Kicker position. Press down for 2 seconds on the key to switch to Auto-balance position.

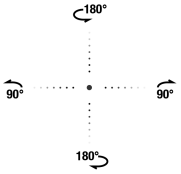
Jumper position enables you to perform jumps forwards and upwards. The Kicker position enables you to push away objects located in its path. Auto-balance position makes it easier for you to negotiate certain obstacles.

Note: In order to avoid excessive wear to the rubber pad, use the Auto-balance position when you are rolling over rough surfaces.

Rolling



Use the left-hand joystick to maneuver the Parrot Jumping Sumo forwards or backwards.
Hold the left-hand joystick and tilt the smartphone to the left or right to direct the Parrot Jumping Sumo to the left or right.



On the screen, drag one finger from the center of the joystick towards ou in order to perform a quarter turn to the left or right.
Drag one finger from the center of the joystick towards or in order to perform a half turn via the left or right.

Jumping

Set the Parrot Jumping Sumo to Jumper position to perform jumps, then:

- Press to perform a high jump;
- Press to perform a long jump.

Note: When the battery is low, it is no longer possible to perform jumps.

Before performing a jump, the spring of the Parrot Jumping Sumo needs to be compressed. This compression may be performed just before a jump, in which case a delay of several seconds is necessary before executing.
You also have the option of anticipating the jump by dragging the key to the left to compress the spring, whilst continuing to use the Parrot Jumping Sumo. Once the cursor has returned to its original position you will be able to:

- jump forwards without delay by pushing ;
- jump upwards with a substantially reduced delay by pushing .

The jump function is blocked as soon as you take hold of the Parrot Jumping Sumo .

Warning: Avoid having the Parrot Jumping Sumo fall from a height greater than 1m. In order to limit the breakage risk, we recommend that you have it descend in stages, at around 80cm at a time. Avoid making the Parrot Jumping Sumo jump if it is located on a fragile surface (e.g. a glass coffee table).

Kicking

Set the Parrot Jumping Sumo to Kicker position to push an object away.
Before pushing an object away, the spring of the Parrot Jumping Sumo needs to be compressed. This compression may be performed just before kicking, in which case a delay of several seconds is necessary before executing.

You also have the option of anticipating the kick by dragging the key to the left to compress the spring, while continuing to use the Parrot Jumping Sumo. Once the cursor has returned to its original position, you will be able to push the object away without delay. To do so:

1. Ensure that the pad of the Parrot Jumping Sumo is in contact with the object to be kicked.
2. Press .

The kick function is blocked as soon as you take hold of the Parrot Jumping Sumo .

Pre-programmed acrobatics

Press Animations to select and launch a pre-programmed movement or acrobatics. Press the ✕ key to interrupt acrobatics in progress.

Battery

The icon indicates the battery charge level of the Parrot Jumping Sumo. The battery life of the Parrot Jumping Sumo is around 20 mins.

Note: The number of jumps performed can have a considerable impact on the battery life of the Parrot Jumping Sumo.

When the battery is low, the indicator turns red and the Parrot Jumping Sumo emits a series of beeps. It is then no longer possible to perform jumps.

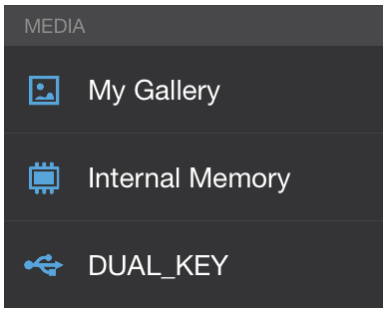
Photos

If you wish to save your photos to a USB key, connect a USB or micro-USB key (not supplied) to the Parrot Jumping Sumo, using, if necessary, a USB/micro-USB cable (not supplied).

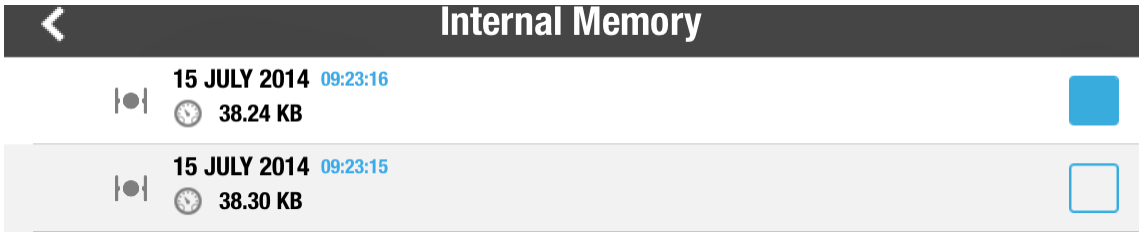
Note: Before buying a micro-USB key, ensure that its dimensions enable it to be inserted into the Parrot Jumping Sumo, (width less than 1.5cm, height less than 2.5cm).

Press the key to take a photo.
If a USB or micro-USB key is connected to the Parrot Jumping Sumo,the photos are automatically saved to the USB or micro-USB key. If not, the photos are saved to the internal memory of the Parrot Jumping Sumo. You can save several hundred photos to the internal memory of the Parrot Jumping Sumo. You will no longer be able to take a photo when the memory is full.

To retrieve or delete a photo:



1. Press <.
2. Press ≡ to display the context menu.
3. Press Internal memory.
   > A list of the photos saved to the internal memory of the Parrot Jumping Sumo appears.
4. Select one or more photos.
5. Press Transfer to retrieve the photos on your smartphone or press Delete.
   > If you transfer the selected photos, a pop-up will then appear, asking you whether you wish to delete them from the internal memory of the Parrot Jumping Sumo.



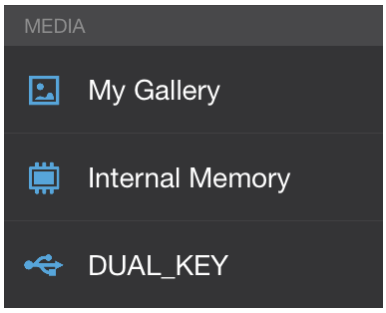
Videos

Connect a USB or micro-USB key (not supplied) to the Parrot Jumping Sumo using, if necessary, a USB/micro-USB cable (not supplied). Ensure that the USB key connected to the Parrot Jumping Sumo has at least 100Mb of free space available.

Note: Before buying a micro-USB key, ensure that its dimensions enable it to be inserted into the Parrot Jumping Sumo (width less than 1.5cm, height less than 2.5cm).

Press the ● key to start or stop recording a video. The ● icon flashes while the video is recording.

To retrieve or delete a video:



1. Press <.
2. Press ≡ to display the context menu.
3. Select your USB key.
   > A list of the videos recorded by the Parrot Jumping Sumo appears.
4. Select one or more videos.
5. Press Transfer to retrieve the photos on your smartphone or press Delete.
   > If you transfer the selected videos, a pop-up will then appear, asking whether you wish to delete them from your USB key.

Note: If there is a USB or micro-USB key connected when you start up the Parrot Jumping Sumo,the video will automatically begin recording when you press Free ride.

Settings

Press ⚙ to get to the Parrot Jumping Sumo settings menu.

At any time you can tap on ↺ to reset the device to its factory settings. this will also delete road plans and photos stored into the Parrot Jumping Sumo memory.

Note : You can also reset to factory settings without using FreeFlight 3. To do so, turn on the Parrot Jumping Sumo then hold down the ⏻ for 12 seconds.

Piloting

Use the option Max rotation to define the maximum rotation speed of the Parrot Jumping Sumo. If this value is low, the smartphone will need to be tilted significantly in order to turn the Parrot Jumping Sumo. If this value is high, a slight tilt is all that's needed.
Use the option Turn neutral zone to define the minimum tilt angle before the rotation begins.

Speed

Use the option Max speed to define the maximum speed of the Parrot Jumping Sumo.
Use the option Speed neutral zone to define the joystick definition. If this value is low, moving your finger slightly on the left-hand joystick will be sufficient in order to maneuver the Parrot Jumping Sumo forwards or backwards. If this value is high, a more pronounced movement of your finger will be necessary.

Audio

Select the personality of the Parrot Jumping Sumo and set their audio volume.

Product name

The Product name option changes the name by which the Parrot Jumping Sumo will be seen by your smartphone and the other Wi-Fi peripherals. The name change will only take effect after restarting the Parrot Jumping Sumo.

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

Wi-Fi

Before starting, check your smartphone's instruction manual (or the technical specifications) to see whether it supports connection to the 5GHz Wi-Fi band. If it doesn't, use the 2.4GHz Wi-Fi band only.
The 5GHz Wi-Fi band generally ensures the best performance of the Parrot Jumping Sumo because the 2.4GHz Wi-Fi band is more congested.

The location settings enable the Wi-Fi parameters to be adapted according to the legislation of the country selected. Depending on the mode (outdoor or indoor) and the country selected, not all of the choices may be authorized. In certain countries, for example, using the 5GHz Wi-Fi band may be prohibited in outdoor mode.

In automatic mode, FreeFlight 3 automatically selects a channel according to the country, the mode (outdoor or indoor), the Wi-Fi band selected and the congestion of the channels. Should you encounter a problem with the quality level of the Wi-Fi connection:

1. Select Manual mode.
2. Select a non-overloaded channel using the information displayed in the diagram: each curve represents an access point and the height of a curve represents the signal strength. So you should give preference to channel without curves or one which where the signal strength is low.

The number of times (2 or 5) the LED eyes flash green when starting up the Parrot Jumping Sumo indicates the Wi-Fi band used (2.4GHz or 5GHz).
If your smartphone does not support connection to the 5GHz Wi-Fi band, you have the option of manually switching the network generated by the Parrot Jumping Sumo to the 2.4GHz Wi-Fi band without using the application. To do this, press down for 3 seconds on the ⏻ button.

Versions

The screen General information enables you to display:

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

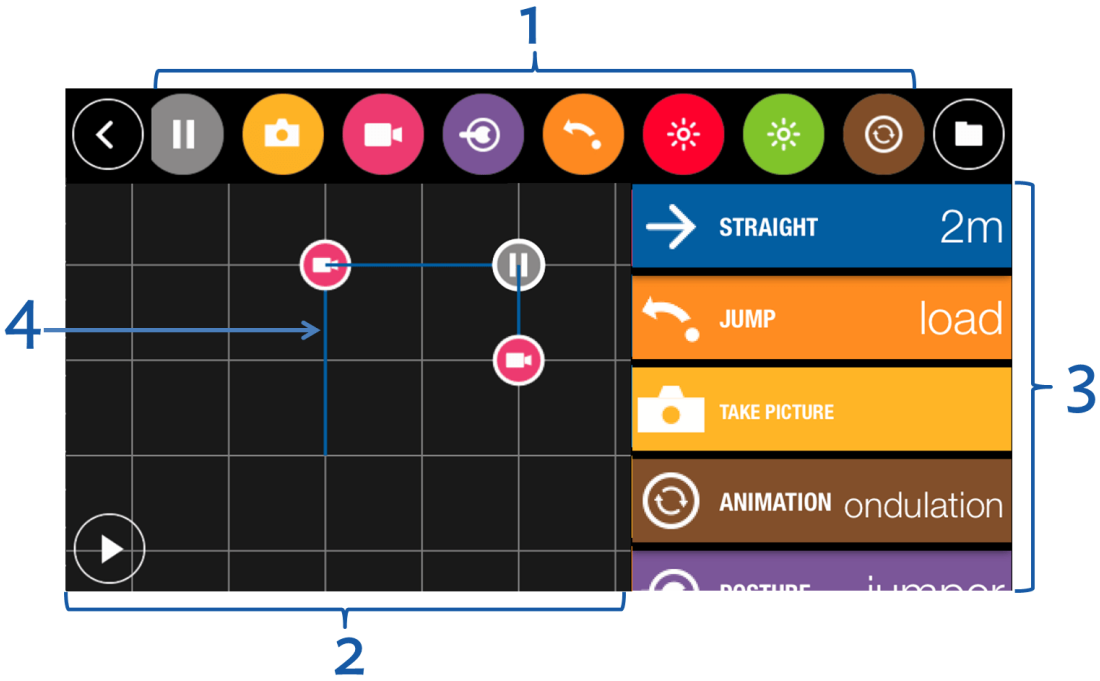
Road plan

The Road plan function enables you to program and save a ride for the Parrot Jumping Sumo. To access this function, press Road plan.

At any time you can press < to return to the main menu. The road plan is saved automatically.

Defining a road plan

Note: You have the option of creating your road plans without being connected to a Parrot Jumping Sumo.



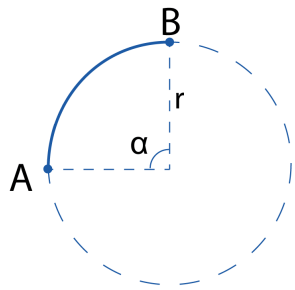
No.	Description
1	List of actions Drag your finger to the right or left to scroll through the available actions.
2	Schematic representation of the environment in which the Parrot Jumping Sumo is going to evolve

	Each square represents a zone of 1m^2. Spread your fingers out on the plan to zoom in or pinch to zoom out.
3	Actions planned on your road plan
4	Trajectory of the Parrot Jumping Sumo

Press on an action and drag it into the right-hand column to add it to the road plan. The corresponding trajectory is displayed on the environment.

On your road plan:

- press down on an action to modify its settings;
- press down for 2 seconds on an action and drag it to a new position to modify the order of the actions within your road plan.

Icon	Action of the Parrot Jumping Sumo Setting(s)/comments
	Moving forward Defining the distance to be covered
	Following a circular trajectory When you define a circular trajectory, consider the circle within which it occurs. In the example opposite, to go from point A to point B: • the setting Angle will need to take the value of α (in degrees) • the parameter Radius will need to take the value of 'r' (in meters) 
	Modifying the speed Note: You may insert several speed-type actions with different values into the road plan.
	Stopping Define the stopping length
	Taking a photo
	Filming To stop the recording, insert another action Saving, and select Off

	Changing the position See the Positions section for further information.
	Performing a jump, kicking an object or loading the spring
	Modifying the color and luminosity of the eyes Select the eyes and define the luminosity of the selected eye. To switch the eyes off, insert an action, defining the luminosity as 0%.
	Performing preprogrammed acrobatics Select the acrobatics type.

Press ▶ to start the ride.

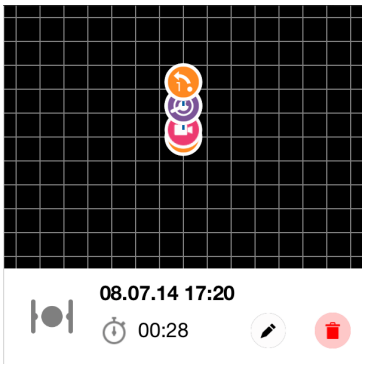
Managing road plans

As you define a road plan, it is automatically saved.

Press to access the list of road plans and display the saved dates and times and their durations.

Press to rename a road plan. Press to delete it.

Press in the top right-hand corner to create a new road plan.



General information

Safety precautions and maintenance

The Parrot Jumping Sumo is not suitable for use by children under 14 years of age. The use of the Parrot Jumping Sumo in some public areas (train stations, trains, airports etc.) may be prohibited. You should check whether the use of the Parrot Jumping Sumo is permitted before using it in public areas or public transport.

It is recommended to use the Parrot Jumping Sumo indoor. The Parrot Jumping Sumo may be irreversibly damaged if you allow sand or dust to penetrate it. Do not drive the Parrot Jumping Sumo on water or on a wet surface. Do not use the Parrot Jumping Sumo in wet conditions. Do not leave the Parrot Jumping Sumo in direct sunlight for long periods, this could result in irreversible damages.

Do not point the jumping mechanism or any object driven by the jumping mechanism towards an individual or animal.

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

Warning on invasion of privacy

Recording and circulating an image of an individual may constitute an infringement of their image and privacy for which you could be liable. Ask for authorisation before filming individuals, particularly if you want to keep your recordings and/or circulate images on the Internet or any other medium. Do not circulate a degrading image or one which could undermine the reputation or dignity of an individual. The use of the Parrot Jumping Sumo for surveillance or espionage is strictly forbidden and could result in your prosecution under the law. Check that your use of the cameras on board the Parrot Jumping Sumo complies with the legal provisions on the protection of privacy.

Warranty

Without prejudice to any applicable statutory warranty, Parrot warrants that the Parrot Jumping Sumo 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 or if the Parrot Jumping Sumo 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 Jumping Sumo.

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.

Correct disposal of this Product

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. Parrot Jumping Sumo is to be controlled via a Wifi link superior to 20 centimeters in normal conditions.

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 (v2.2.1), EN 301489-1 (v1.9.2) EN300328 (v1.8.1), EN 301893 (V1.7.1), EN71-1, EN71-2, EN71-3, EN62115, following the provision of the Radio Equipment, Telecommunication Equipment directive (1999/5/EC R&TTE), of the General Safety directive (2001/95/EC) and of the RoHS directive (2011/65/EC).

Registered trademarks

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Google Play and Android are trademarks of Google Inc.

Wi-Fi® is a registered trademark of Wi-Fi Alliance®.

All other trademarks are the property of their respective owners.