

Parrot® minidrones

Jumping Race Drone



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User Guide

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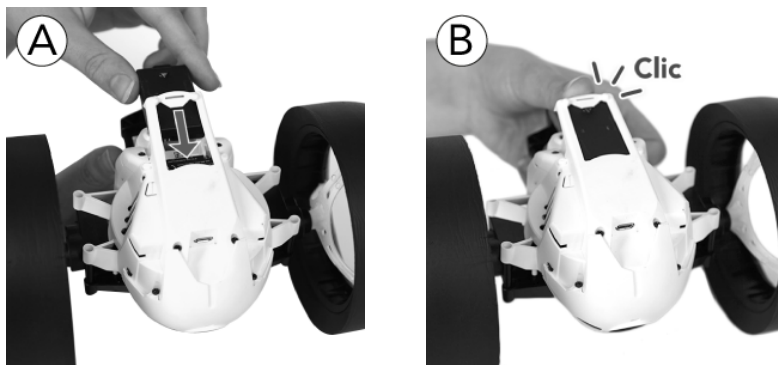
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Before starting

Charging the battery

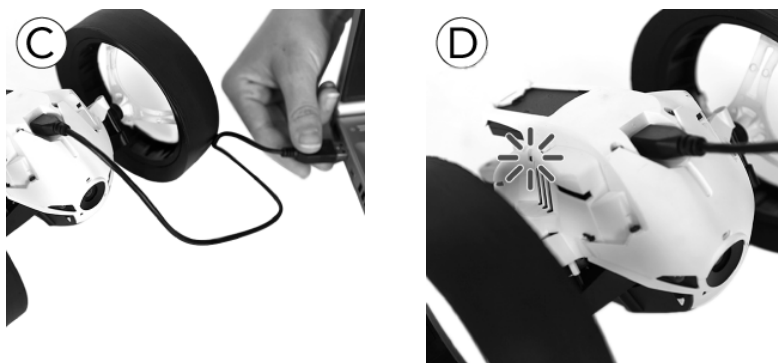
1. Insert the battery into the appropriate compartment (pictures A and B).



2. Connect the MiniDrone (pictures C and D):

- To a 2.4 A minimum charger (not provided). The charging time is approximately 25 minutes.
- To your computer using the USB cable (provided). The charging time is approximately 1 hour and 30 minutes.

> The LED located next to the On/off button turns red while charging. Once the MiniDrone is fully charged, the LED turns green.



To remove the battery:

1. Carefully lift the plastic part surrounding the battery.
2. Remove the battery using the two grips located at the back of the battery.

In order to ensure effective maintenance of the battery on the MiniDrone never leave the battery installed in the compartment.

Switching the Parrot Jumping Race Drone on and off

Insert the battery into the battery compartment or press the button to switch the MiniDrone on. Wait until the MiniDrone indicates that it is ready to be used and its LED eyes turn green.

Press the button to switch the MiniDrone off. The LED eyes switch off.




Downloading the application

Connect to the App StoreSM or Google PlayTM and download the free **FreeFlight3 application**.

Connecting a smartphone

1. Carry out a Wi-Fi[®] search from your smartphone
 - if you are using an iPhone or an iPad select **Settings > Wi-Fi**
 - if you are using an AndroidTM smartphone select **Settings > Wireless and networks > Wi-Fi**.
2. Select the MiniDrone's network.
3. Wait for your smartphone to connect to the Wi-Fi network of the MiniDrone. This connection is generally represented by the Wi-Fi logo appearing on the smartphone screen.
4. Start the FreeFlight3 application.
 - > The connection between your smartphone and the MiniDrone is established automatically. A pop-up "Connected" appears. The MiniDrone performs a turn and emits sounds.

If your smartphone does not connect automatically to the MiniDrone, press , then select the name of your MiniDrone in the list.

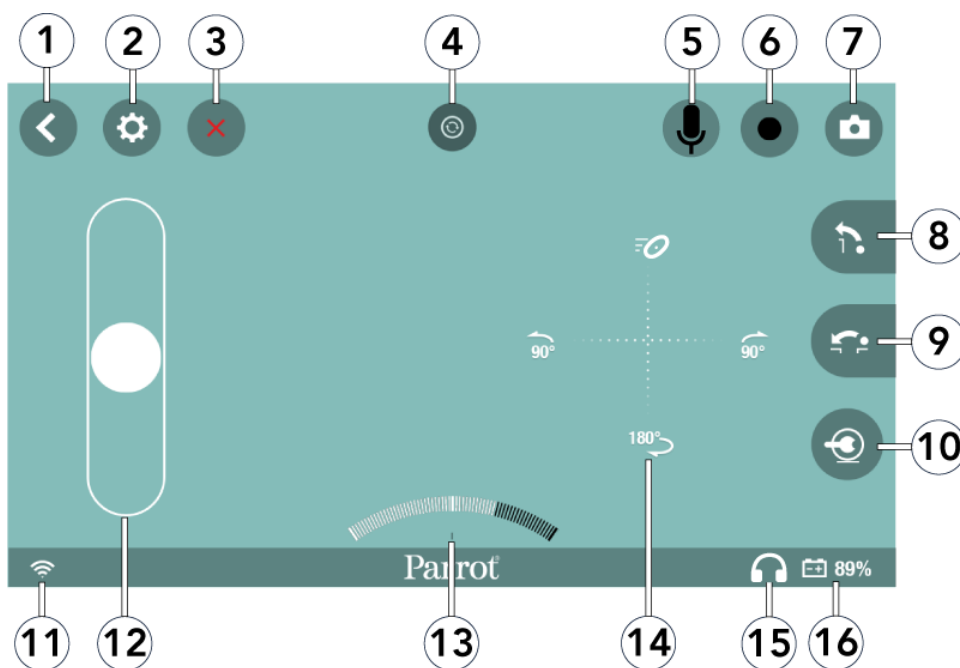
See the [Settings > Wi-Fi](#) section for further information.

Piloting

1. Start the FreeFlight3 application.
2. Press **FREE RIDE** to pilot the MiniDrone. Press **Voice transmission** to pilot the MiniDrone in Talkie Walkie mode. For further information, see [Talking through the MiniDrone](#).
 - > The piloting screen appears.

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

Piloting screen



N°	Description	N°	Description
1	Last screen	9	Long jump
2	Settings	10	MiniDrone's position
3	Stopping a pre-programmed acrobatic	11	Wi-Fi range
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5	Walkie Talkie (Voice transmission mode only)	13	Speed needle
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7	Photo	15	Plugged / unplugged phone headset
8	High jump	16	Battery level

Wheels position

Before you start select the piloting mode for the MiniDrone

- by bringing the wheels together you are making the MiniDrone more responsive
- by separating the wheels you are improving the MiniDrone stability.

MiniDrone's positions

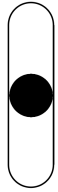
Press the  key to switch to Jumper or Kicker position. Press down for 2 seconds on the  key to switch to Auto-balance position.

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.

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

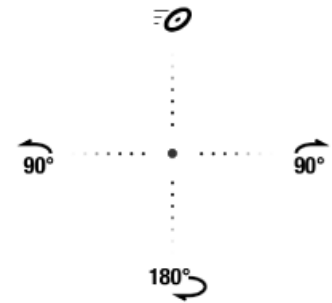
Rolling

Use the left-hand joystick to pilot the MiniDrone forwards or backwards.
Hold the left-hand joystick and tilt the smartphone to the left or right to direct the MiniDrone to the left or right.



On the screen drag one finger from the center of the joystick towards ← or → 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.



Drag one finger from the center to the top part of the joystick in order to perform the last pre-programmed acrobatic selected. For further information, see [Pre-programmed acrobatics](#).

Jumping

Set the MiniDrone to the Jumper position to perform jumps, then:

- Press ↶ to perform a high jump,
- Press ↷ to perform a long jump.

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

Before performing a jump the spring of the MiniDrone 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 MiniDrone. 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 prohibited as soon as you take hold of the MiniDrone .


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

Kicking

Set the MiniDrone to Kicker position to push an object away.

Before pushing an object away the spring of the MiniDrone 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 MiniDrone. 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 MiniDrone is in contact with the object to be kicked.
2. Press .

The Kick function is prohibited as soon as you take hold of the MiniDrone .

Pre-programmed acrobatics

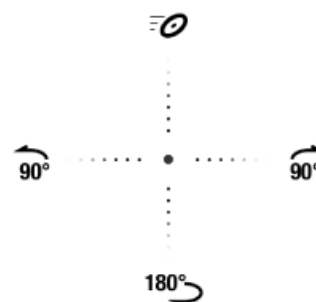
Press  to display the list of pre-programmed acrobatics.


Icon	Name	Description
	Boost	The MiniDrone accelerates
	Spin	The MiniDrone rotates on its axis for 2 seconds
	Tap	The MiniDrone taps its jump spring on the floor
	Slow shake	The MiniDrone executes a quarter turn to the right, then to the left, then right
	Metronome	The MiniDrone rotates on its axis to the right, then to the left
	Ondulation	The MiniDrone performs an auto-balance position then returns to normal position
	Spin Jump	The MiniDrone rotates on its axis, then perform a jump
	Slalom	The MiniDrone slaloms

Press the corresponding icon to launch the acrobatic you want.

Press **X** to interrupt acrobatics in progress.

To launch the last selected pre-programmed acrobatic, drag one finger from the center to the top part of the left joystick.




To reach the maximum speed accelerate until the speed needle reaches its highest point then activate Boost ().

Battery

The  icon indicates the battery charge level of the MiniDrone. The battery life of the MiniDrone is around 20 mins.



The number of jumps performed can have a considerable impact on the battery life of the MiniDrone.

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

Talking through the MiniDrone

The embedded speaker and microphone allow you to speak through the MiniDrone.


1. Connect your smartphone earphones to your phone.

> The  icon located at the bottom right of the screen turns .

2. Press  to activate Walkie Talkie mode.

> The icon turns blue and the MiniDrone repeats what you say.

You cannot record a video and activate the **Walkie Talkie** mode simultaneously.


When you connect your earphones the video recording stops automatically the  icon turns black.

When the **Voice transmission** mode is activated the video record stops.

The earphones supplied with your smartphone must support hands-free calling for this feature to work i.e. include a microphone.




Photos

Press the  key to take a photo.


The photos are automatically saved to internal memory of the MiniDrone. When the memory is full an alert message appears. You will no longer be able to take a photo.

Videos

The video recording starts automatically when you press **Start**. The  icon flashes while the video is recording.




Press  to stop the video record.

The videos are automatically saved to internal memory of the MiniDrone. When the memory is full an alert message appears. You will no longer be able to record video.

You cannot record a video and activate the **Walkie Talkie** mode simultaneously. When you connect your phones earphones the video recording stops automatically the  icon turns black.


Retrieving photos and videos

To retrieve photos and videos, your smartphone must be connected to the MiniDrone.

1. Display the context menu. To do so:
 - If the piloting screen is open press , then .
 - If the main screen is open press .
2. Press **Internal memory**.
 - > A list of the photos and videos saved to the internal memory of the MiniDrone appears.
3. Select one or more photos and videos.
4. Press **Transfer** to retrieve the photos and videos on your smartphone or press **Delete**.
 - > If you transfer the selected files a pop-up will then appear asking you whether you wish to delete them from the internal memory of the MiniDrone.

Settings

Press  to get to the MiniDrone settings menu.

At any time you can tap on  to reset the device to its factory settings. This will also delete road plans, photos and videos stored into the MiniDrone memory.

You can also reset to factory settings without using FreeFlight3. To do so, turn on the MiniDrone then hold down the on/off button for 12 seconds.

Media

Use the **Principal volume** option to set the volume of your MiniDrone.

The **Auto recording** option enables you to record or not record the video when you press **Start**.

Piloting

Use the option **Max rotation** to define the maximum rotation speed of the MiniDrone. If this value is low the smartphone will need to be tilted significantly in order to turn the MiniDrone. 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 MiniDrone.

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 MiniDrone forwards or backwards. If this value is high, a more pronounced movement of your finger will be necessary.

Network

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

The network name of the MiniDrone can only contain letters, numbers and

underscores ("_"). It must not exceed 32 characters in length.

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.

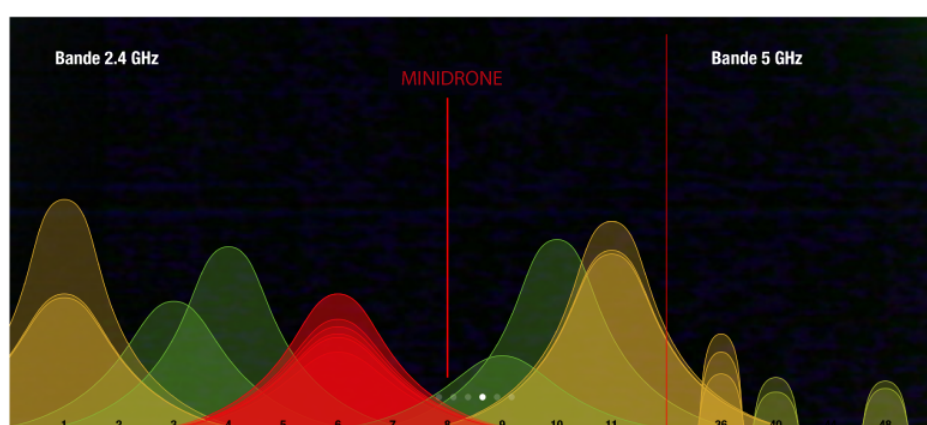
The 5GHz Wi-Fi band generally ensures the best performance of the MiniDrone because the 2.4GHz Wi-Fi band is more congested.

The **Country** list enables you to choose the country where you use the MiniDrone. Activate the **Outdoor** option if you use the MiniDrone outdoors. Deactivate the option if you use it indoors.

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, FreeFlight3 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 where the signal strength is low.



The number of times (2 or 5) the LED eyes flash green when starting up the MiniDrone 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 MiniDrone to the 2.4GHz Wi-Fi band without using the application. To do this, press down for 3 seconds on the button.

Information

The screen **General information** enables you to display:

- the version number of the FreeFlight3 application installed on your smartphone,
- the version number of the firmware installed on your MiniDrone,
- the hardware version of your MiniDrone.

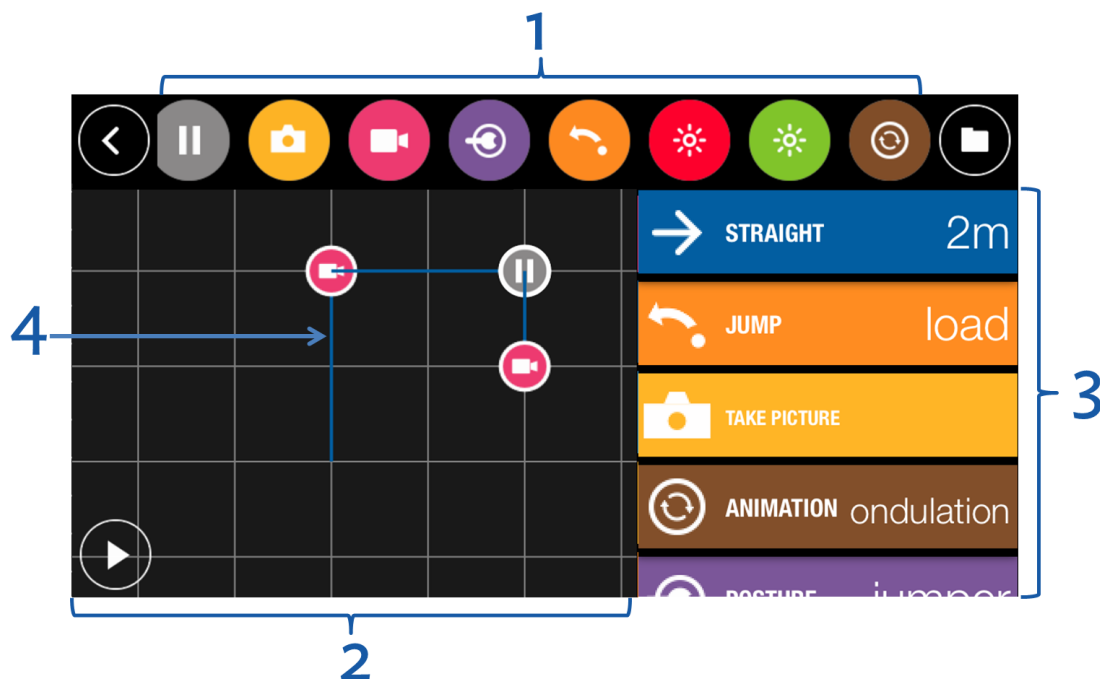
Road plan

The **Road plan** function enables you to program and save a ride for the MiniDrone. 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

You have the option of creating your road plans without being connected to a MiniDrone.



No. Description

- 1 List of actions available for a road plan
Drag your finger to the right or left to scroll through the available actions.
 - 2 Schematic representation of your road plan.
Each square represents a zone of 1m². Spread your fingers out on the plan to
-

zoom in or pinch to zoom out.

3 Order of events within your road plan







4 Trajectory of the MiniDrone

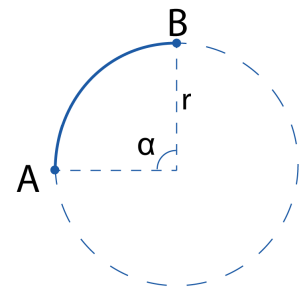
Press on an action and drag it into the right-hand column to add it to the road plan. The corresponding trajectory is displayed on the road plan.

To delete an action slide the action from the right column to the left of the screen.

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 MiniDrone 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: <ul style="list-style-type: none">• 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 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.

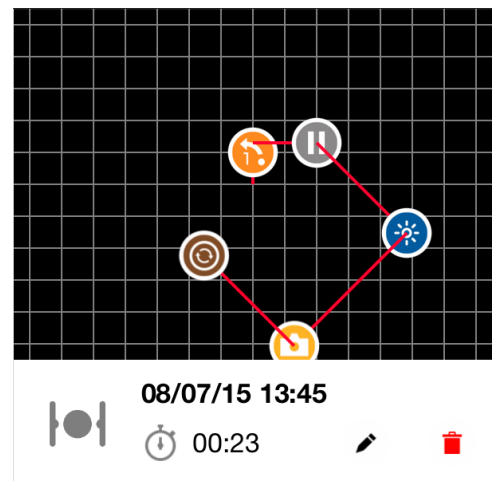
Managing road plans

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.



Drone Academy

An internet connection is necessary to use the Drone Academy.

To launch the Drone Academy:

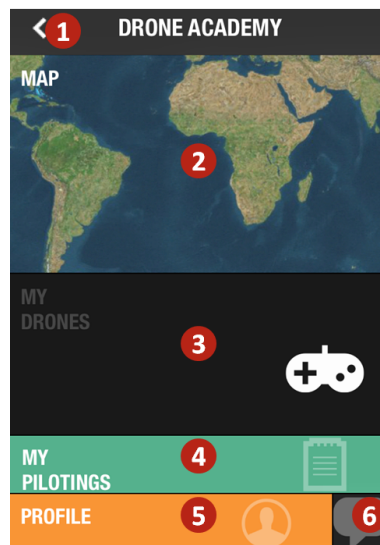
1. Launch the FreeFlight3 application.
2. Press **Drone Academy**.

A profile is necessary to access the Drone Academy.

To create a profile:

1. Press **Sign up now**.
2. Type a user name, a password and an e-mail address.
3. Press **Register your profile**.

> The Drone Academy main screen appears:




#	Description
1	Accessing the FreeFlight3 application home screen
2	Visualizing the map of the flights
3	Accessing your list of drones
4	Accessing your list of flights

5	Modifying and disconnecting your profile
---	--

6	Sending a Drone Academy invitation
---	------------------------------------


To modify or delete your profile:

1. Press the **Profile** tab.
2. Press 
3. Press **Logout** or **Edit**.
4. If you edit your profile slide the screens towards left to complete your profile.

To register a MiniDrone press **My drones**.

The first time you connect the MiniDrone to your smartphone, a pop-up ask you to register your MiniDrone in the Drone Academy.

To consult the shared flights:

1. Press **Map**.
2. Press  to search flights amongst:
 - your flights or other user's flights;
 - the type of media.

Press  to search flights by user or place.

To consult and share your flights:

1. Press **My pilotings**.
 - >The list of your flights appears. You can sort them by date, rank or type.
2. Press the flight you wish to share.
3. Press **Public** to share the flight. You can also:
 - press the stars to rate the flight;
 - press the tabs at the bottom of the screen to consult the flight information.

Updating

Press **Check for Updates** to verify the availability of an update for the MiniDrone.

There are 2 ways to update the MiniDrone :

- via the application (recommended).
- via USB, by downloading the update file from our website. This method requires a computer.

See the [update procedure for the MiniDrone](#) for further information.

General information

Safety precautions and maintenance

Accessories and spare parts are available from your Parrot retailer or from our website store.parrot.com.

The MiniDrone is not suitable for children under 14 years of age.

To reduce the risk of damage, we recommend that you bring the MiniDrone down in increments of approximately 80cm.

There are some public places (stations, airports etc.) and roads where you may not be permitted to use your MiniDrone.

It is recommended that the MiniDrone be used indoors. If sand or dust gets into the MiniDrone, irreversible damage may be caused and it will not be able to operate properly. Do not put the MiniDrone on water or on any damp surface. Do not use this device close to any liquid substances. Do not leave the MiniDrone in direct sunlight. Do not point the jump mechanism towards a person or an animal. Only use accessories specified by the manufacturer.

Warning regarding the invasion of privacy

Recording and circulating the image or voice of a person without their authorisation could constitute an infringement of their image and privacy rights and incur your liability. Ask for authorisation before filming people and recording their voice, particularly if you want to keep your recordings and/or circulate them on the Internet. Do not circulate any degrading images or sounds or which could undermine the reputation or dignity of an individual.

Battery

Failure to comply with instructions may cause permanent damage to the battery, its environment and may cause injury. Always use a LiPo battery charger. Never charge via a discharge lead. Never trickle charge or below 2.5 V. Never allow the battery temperature to exceed 60°C (140°F). Never disassemble or modify the wiring in the battery pack or puncture the battery cell. Never place the battery on top of combustible materials or leave it unattended during charging. Always charge in a

fireproof location. Always make sure that the charger output voltage corresponds to the battery voltage. Always keep out of the reach of children. Incorrect use of the battery can cause fires, explosions or other damage.



The battery terminals should not be allowed to short-circuit. The product should be connected only to class II appliances which display the symbol.

Warranty

For the warranty conditions please refer to the retailer's General Conditions of Sale where you purchased your MiniDrone.

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



The symbol on this product and on its literature shows that at the end of its life, it is not to be disposed of with household waste. The uncontrolled disposal of waste is harmful to the environment: please separate this from other types of waste and dispose of responsibly. Private individuals are invited to contact the retailer who sold them the product or to ask advice from their local authority to find out how and where it can be recycled.

Declaration of Conformity

Parrot SA, 174 quai de Jemmapes, 75010 Paris, France, declares under its own liability that the product described in the present user guide conforms to the 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, EN62115, EN62321 according to the provisions of directive R&TTE 1999/5/CE, the general safety of products directive 2001/95/CE and the directive RoHS 2011/65/CE.

The declaration of conformity is available at the following address:

www.parrot.com/fr/ce/?jumping-race-drone



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