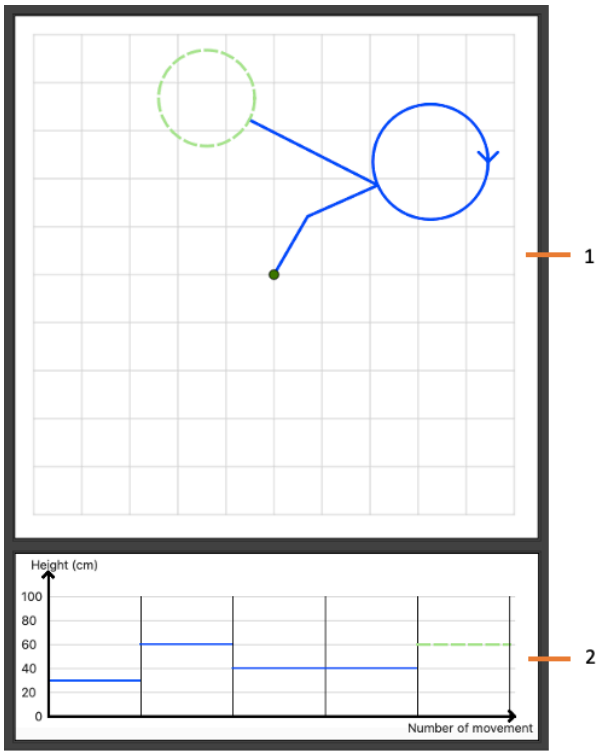
USER'S GUIDE

The aim of this interface is to easily create a trajectory for the drone.

How is made the interface?

The interface is separated in three parts. The left part gathers the buttons of command to draw the trajectory. In the middle part, at the top, there is an aerial view of the trajectory drawn and at the bottom, it is a side view where you can see the height of the drone. The right part is composed of the command buttons to launch and stop the drone.

Middle Views



1. Aerial View
2. Side View

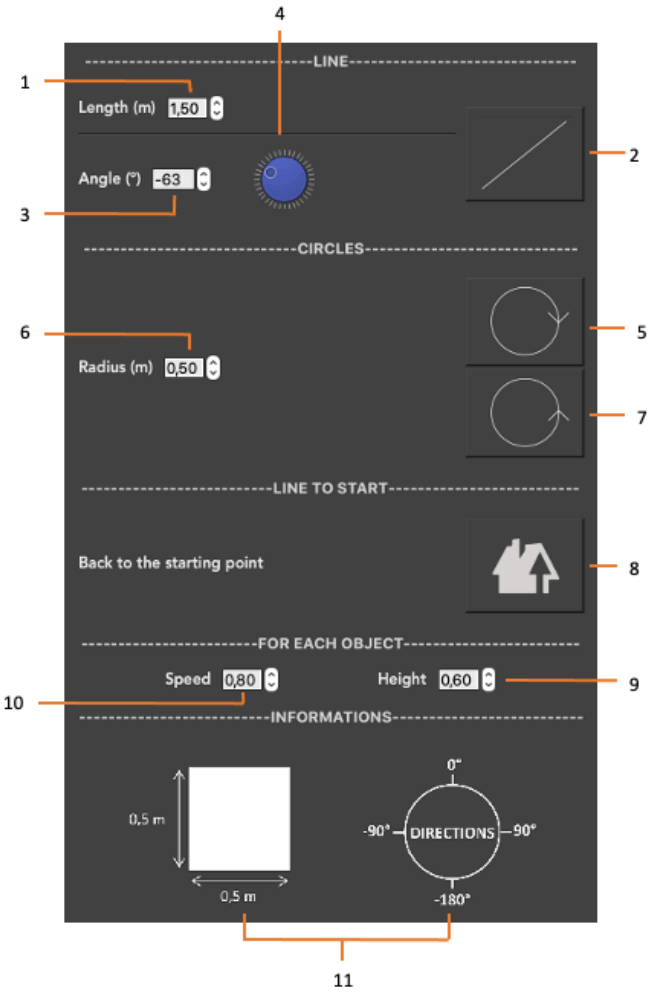
Aerial View

This aerial view represents a space of 5 metres long and 5 metres in width. The graduation is 0,5m x 0,5m. The initial position of the drone is the green point in the middle of the grid at the coordinates (0,0).

Side View

The side view represents the height of each element of the drone during the trajectory, which are separate by a vertical line. The height of the drone is limited to 4 meters. However, we recommend to the users to not exceed a height of 3 meters because higher than that, the drone has trouble to stabilize.

Left Command Part



1. Spinbox of the length of the Line
2. Line Button
3. Spinbox of the angle of the Line
4. Dial of the angle of the Line
5. Circle Right Button
6. Spinbox of the radius of the Circle
7. Circle Left Button
8. Back to the starting point Button
9. Spinbox of the height of the drone during the element
10. Spinbox of the speed of the drone during the element
11. Graduation and direction of the grid of the aerial view

Right Command Part

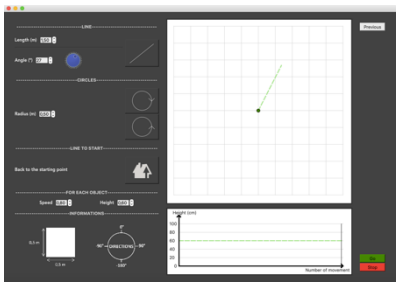
1. Previous Button
2. Go Push Button
3. Stop Push Button

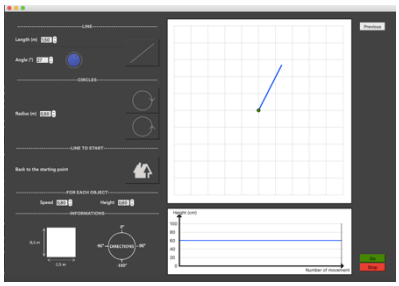
How to design a trajecory?

CAUTION : You need to turn the drone on before opening the interface.

How to draw a line?

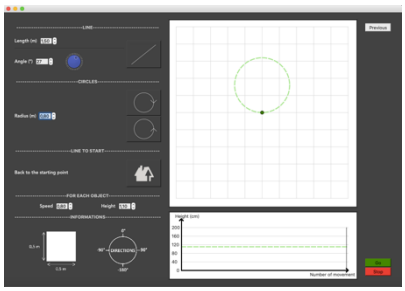
1. Choose the length of your line in the spinbox and see a preview of the line in green
2. Choose an angle with the dial or the spinbox
3. Choose the speed of the drone in the spinbox in the section for each object
4. Choose the height of the drone in the spinbox in the section for each object
5. Push the line button to add it in the flight plan and in blue in the aerial view

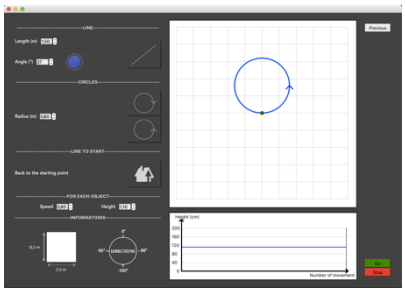




How to draw circle?

1. Choose the radius of the circle and see a preview of the circle in green
2. Choose the speed of the drone in the spinbox in the section for each object
3. Choose the height of the drone in the spinbox in the section for each object
4. Push the right button circle add a right circle in the flight plan and in the aerial view or push the left button circle add a left circle in the flight plan and in the aerial view





How to remove an element of the flight plan?

Press the previous button on the top right corner of the interface.

How to launch the drone?

Once you have finished the drawing of your trajectory, push the Go button at the button right corner of the interface

How to stop the drone in flight?

If there is a problem with the drone, push the Stop button for an emergency stop.