Hack4Kids – Drone Race

Hack4Kids@Deloitte
By SECURITYMADEIN.LU

Drone Race?

Step 1 – Team up	Etape 1 – Créé une équipe
Step 2 – Get an iPad and a drone	Etape 2 – Prend un iPad et un drone
Step 3 – Measure the circuit	Etape 3 – Mesure le circuit
Step 4 – Code your race	Etape 4 – Programme ta course
Step 5 – Run the program	Etape 5 – Lance le programme
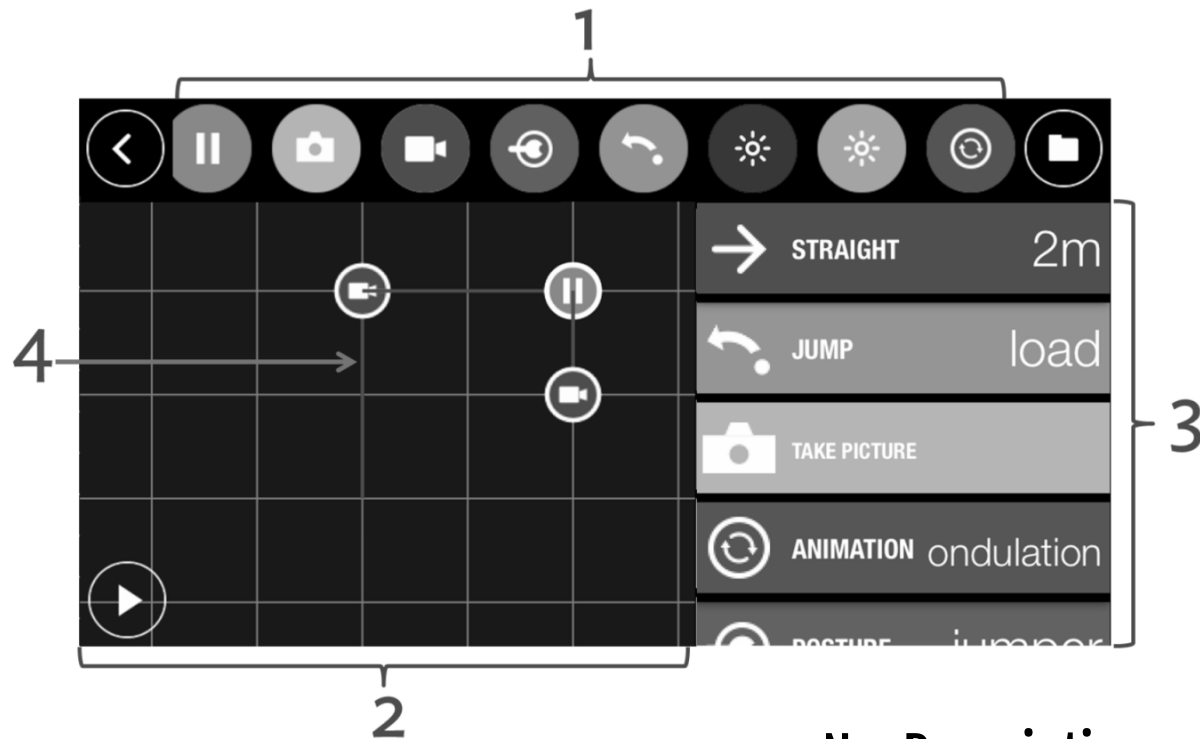
No. Description

1 List of actions available for a road plan

2 Schematic representation of your road plan

3 Order of events within your road plan

4 Trajectory of the Drone

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→ **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)**
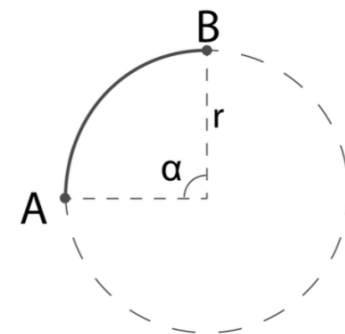
⏱ **Modifying the speed** – You may insert several speed-type actions with different values into the road plan.

⏸ **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.