

An underwater scene featuring an orange ROV (ORPHIE) with a camera mounted on top, swimming in a blue, dimly lit environment. The ROV is positioned in the center-left of the frame. The background shows dark, silhouetted structures, possibly part of a shipwreck or industrial site, with light filtering through from above.

Quick Start Guide Seasam with ORPHIE Camera



December 2022

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I - ORPHIE CAMERA INSTALLATION

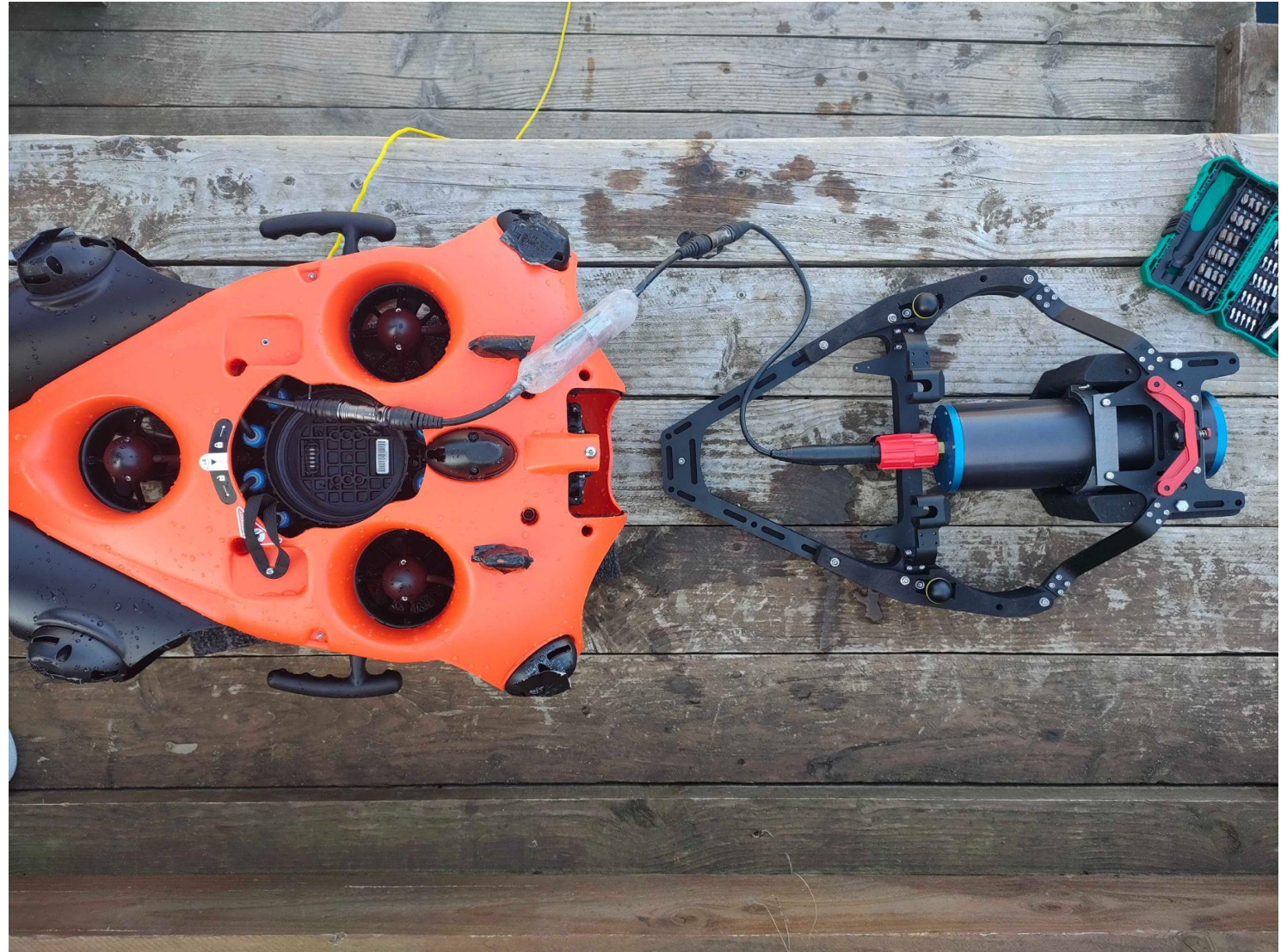


I - ORPHIE CAMERA INSTALLATION

Installation of the Orphie Camera

Required Equipment

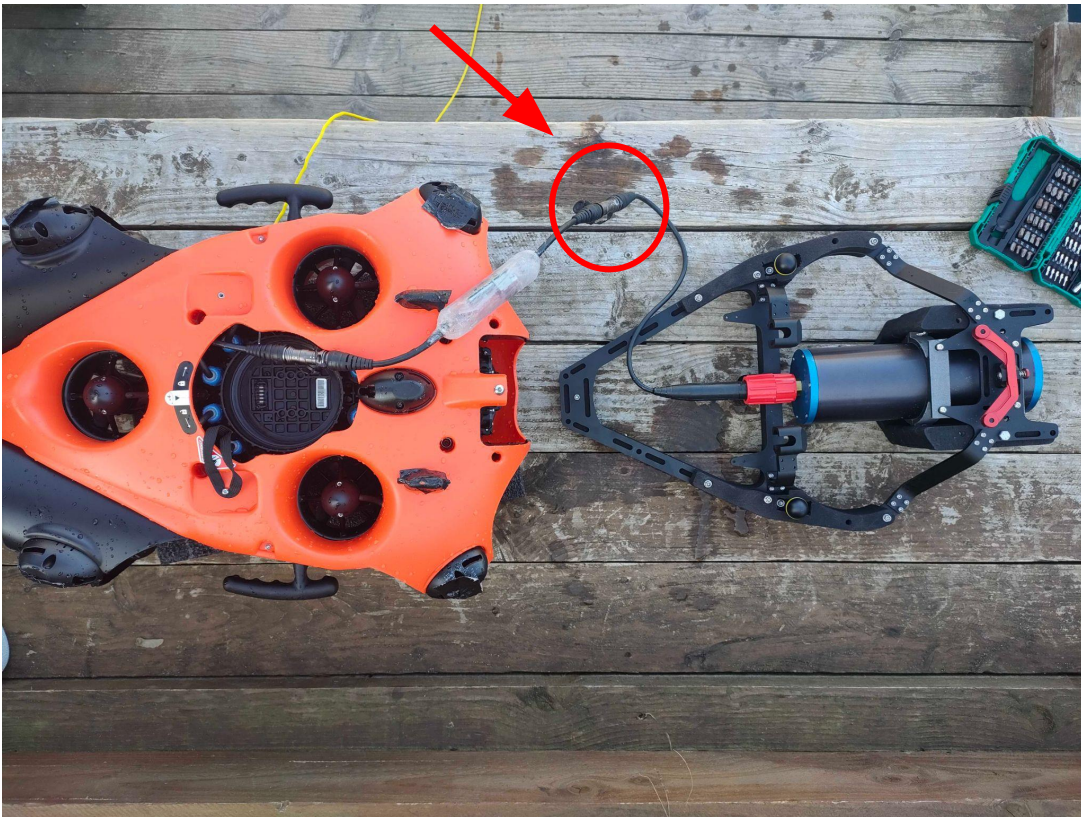
- Drone
- Sensor Network
- Structure with Orphie Camera



I - ORPHIE CAMERA INSTALLATION

Installation of the Orphie Camera

Connect the Orphie camera to the Sensor Network by connecting the camera cable to the Sensor Network connector



The battery must not be connected to the drone during this step.

Secure the plugs of the connectors together to prevent them from catching on anything else during operation



I - ORPHIE CAMERA INSTALLATION

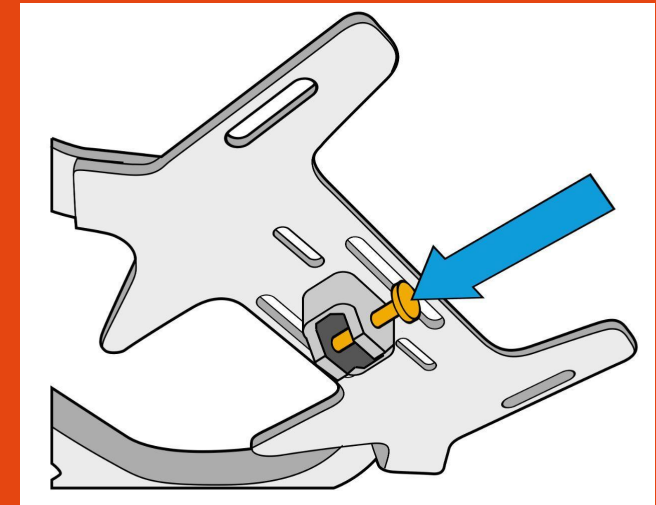
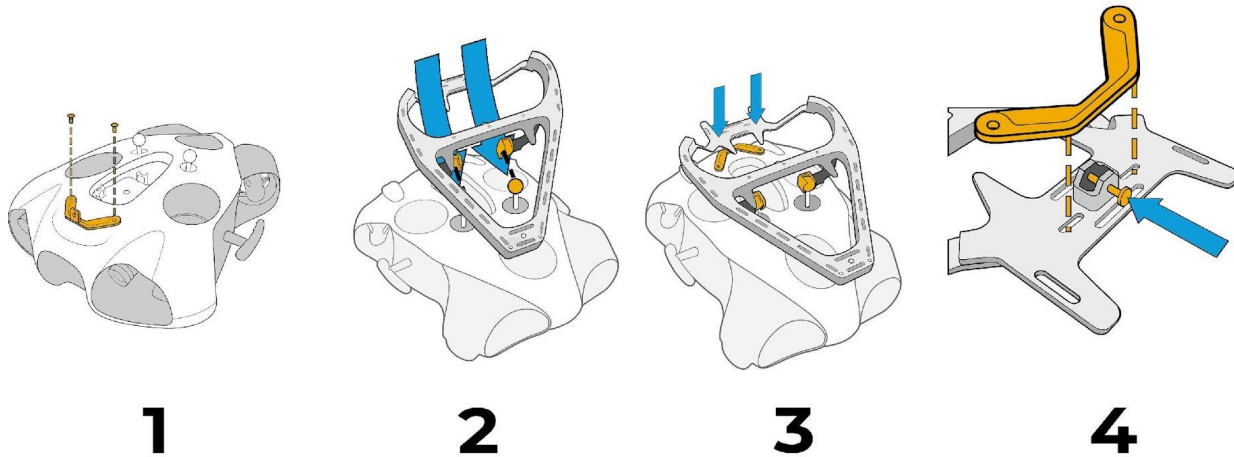
Installation of the Orphie Camera

Place the structure on the drone

- Engage the structure on the 2 ball joints of the drone.
- Lower the front of the frame onto the drone.
- Press the red button on the front of the structure
- Engage the structure on the clip previously installed on the drone

The battery must not be connected to the drone during this step.

Make sure the structure is properly secured to the drone to prevent it from moving during operation.



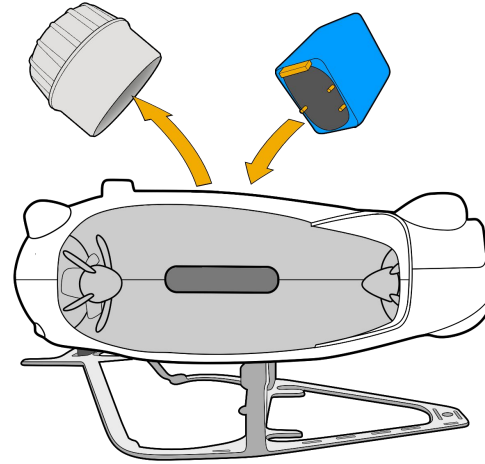
II - STARTING UP THE DRONE



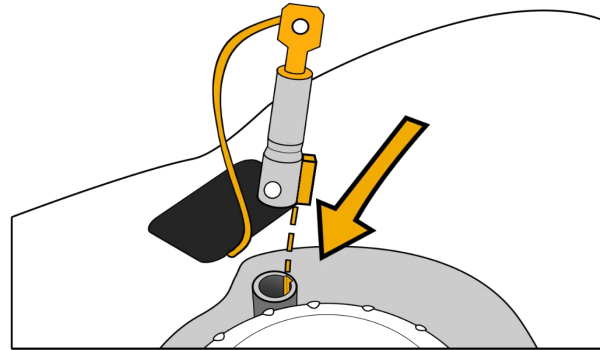
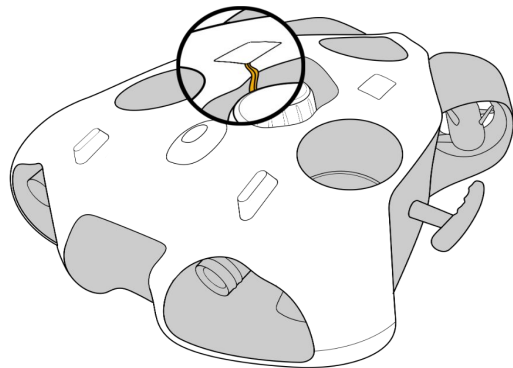
II - STARTING UP THE DRONE

Connecting the battery

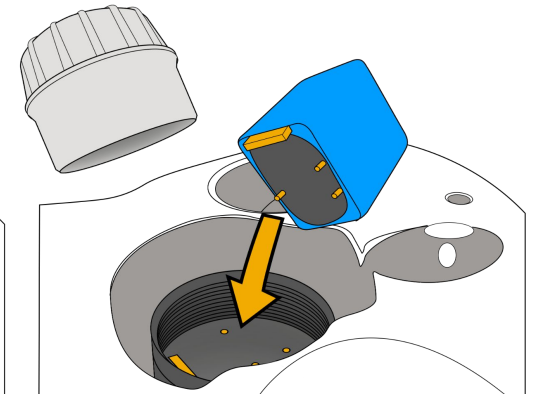
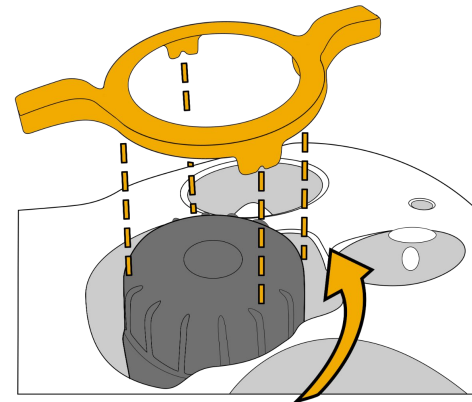
Turn the drone over and place it on the structure.
Be careful not to damage the camera.



Ensure that the emergency stop on the underside of the drone is properly inserted.
Make sure that the safety guide is aligned in the right direction



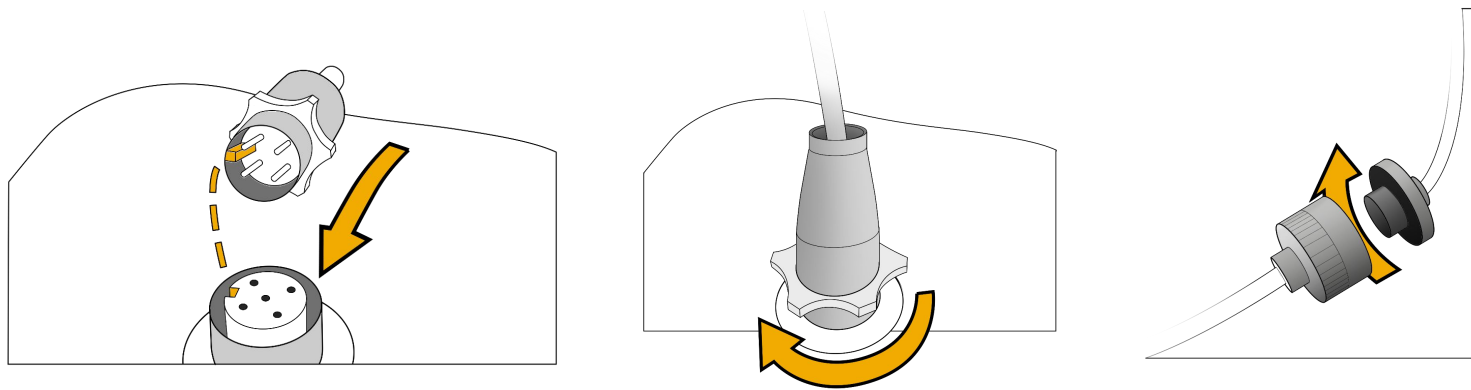
Make sure the battery compartment is properly closed.
Use the dedicated tool.



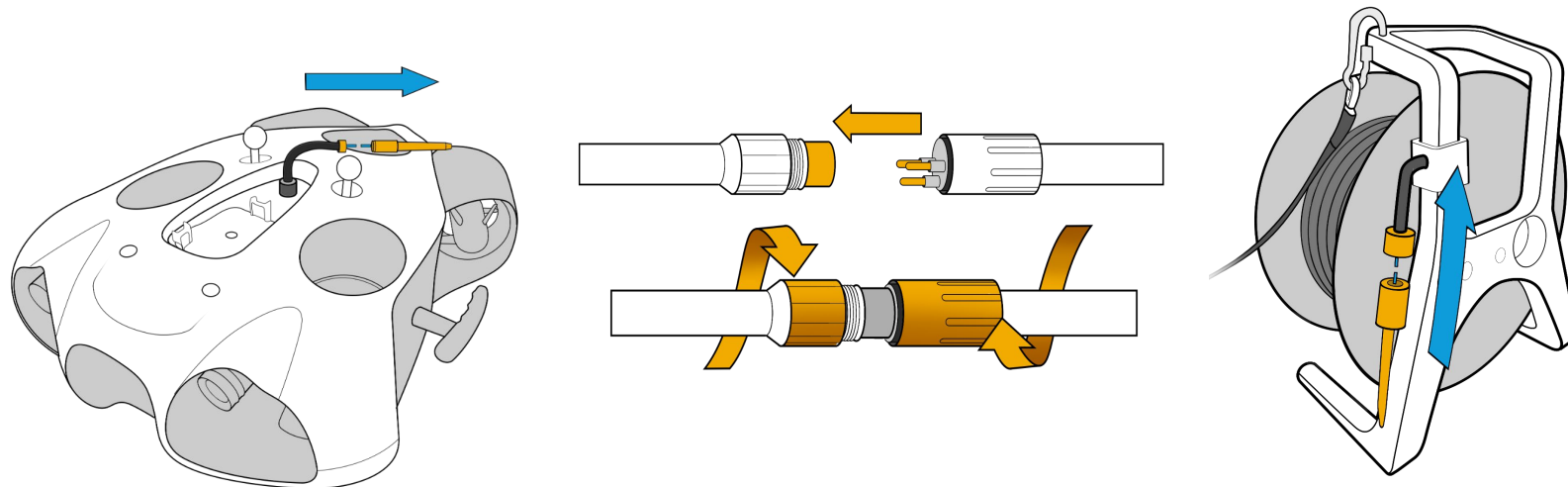
II - STARTING UP THE DRONE

Connecting the WiFi reel to the drone

Standard Connector



Subconn Connector

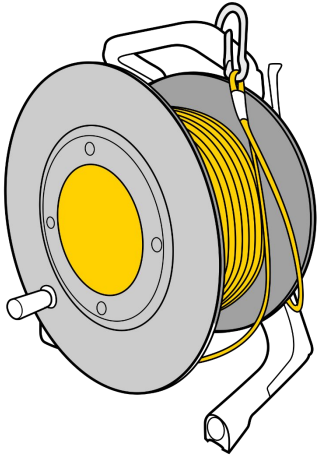


Attach and lock the carabiner on the structure to secure the Drone

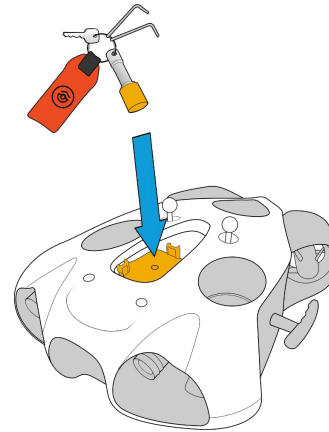


II - STARTING UP THE DRONE

Starting up the equipment



Press the "On" button once. After several seconds the LED flashes quickly blue



Place the magnet on the "Power" icon on top of the drone. The drone will turn on and test all its components. It will make sounds and activate its lights.

Make sure that nothing is in the way and that the motors are not jammed.

When this process is complete, the green front LED will be solid.



Turn on the controller.

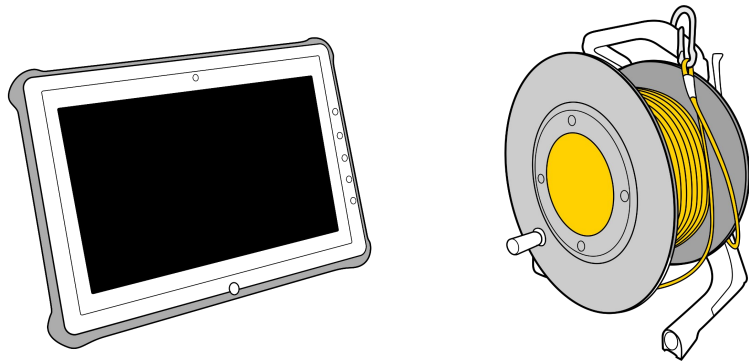
II – STARTING UP THE DRONE

Connecting to the WiFi Reel

Delivery after September 2021

Connect the tablet to the WiFi signal of the WiFi Reel.
The wifi network is: "Seasam-WiFiReel-XXXX".
The password is **@Notilo+**

Continue directly to page 12



II - STARTING UP THE DRONE

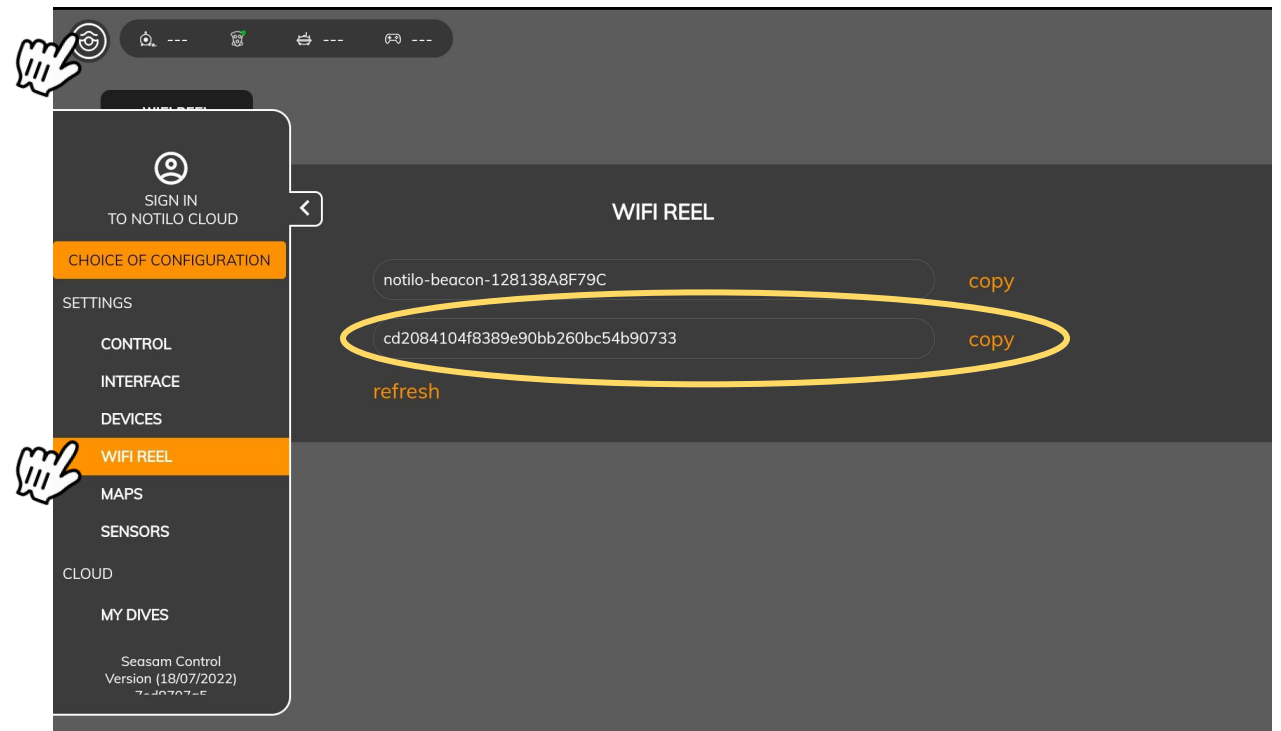
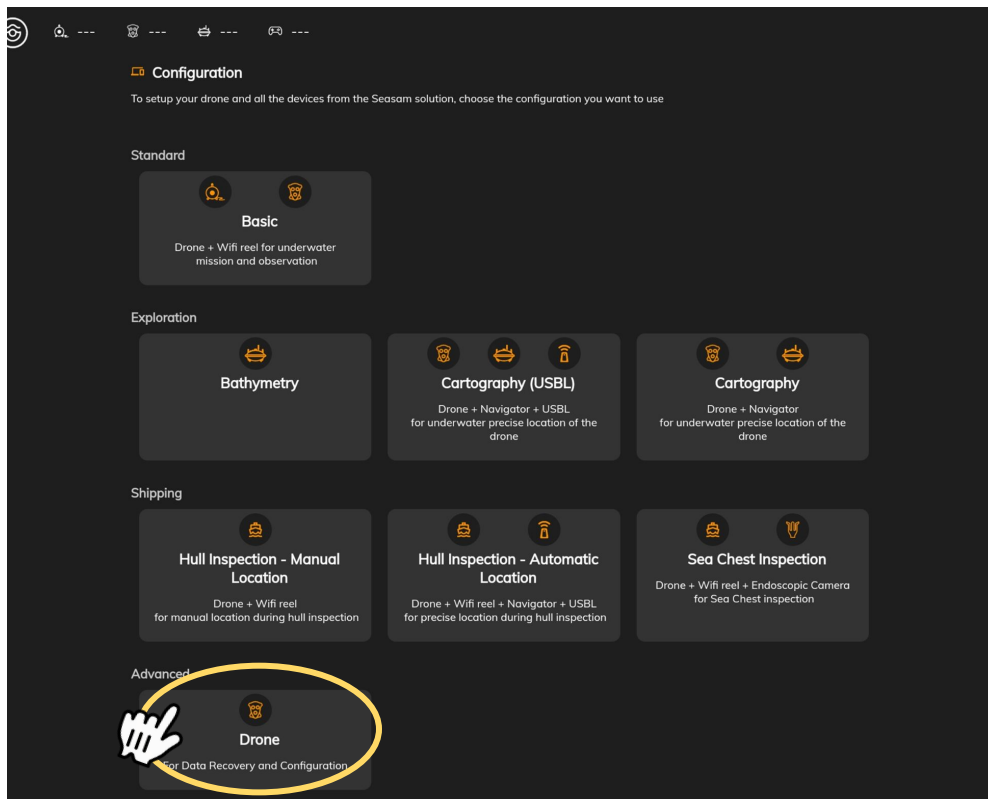
Connecting to the WiFi Reel

Delivery before September 2021

The wifi network is: "notilo-beacon-XXXX"

- Connect the tablet to the WiFi network of the drone "Seasam-XXXX".
- In the configuration part choose "Drone".

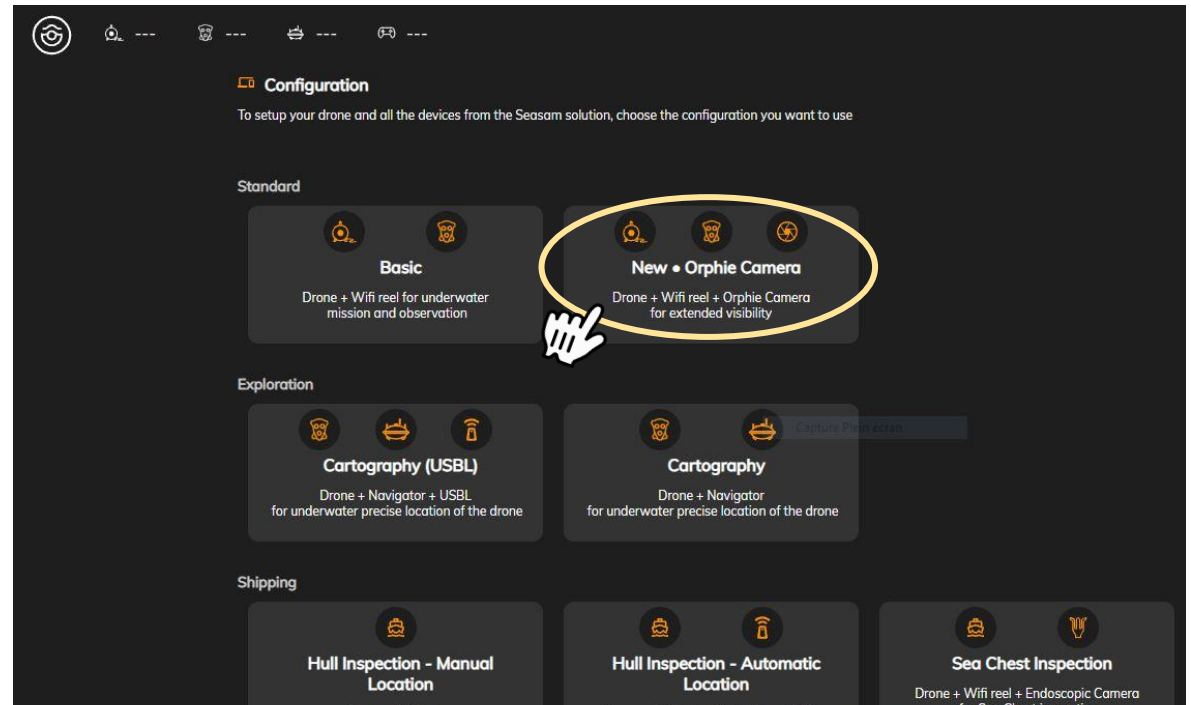
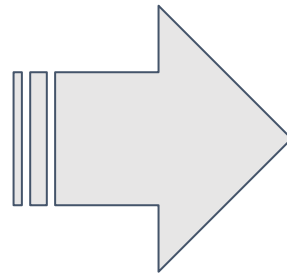
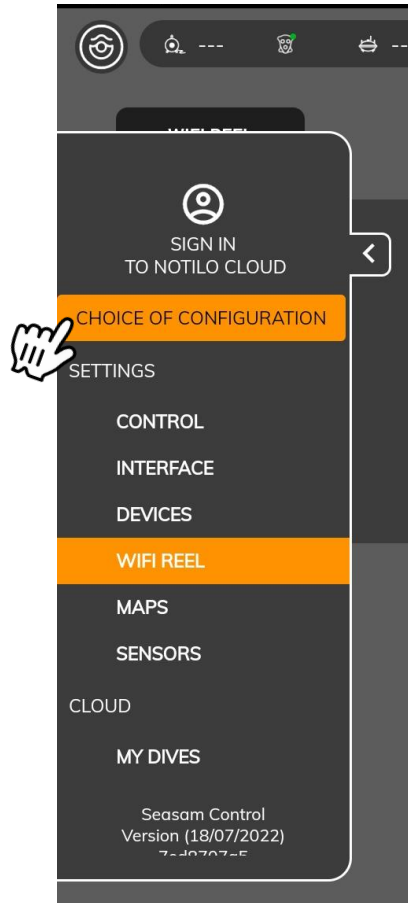
- Go to the application settings
- Select "WiFi Reel".
- The network name and password are displayed
- **Copy the password**
- **Connect the tablet to the notilo-beacon-XXX WiFi network**



II - STARTING UP THE DRONE

Choice of configuration

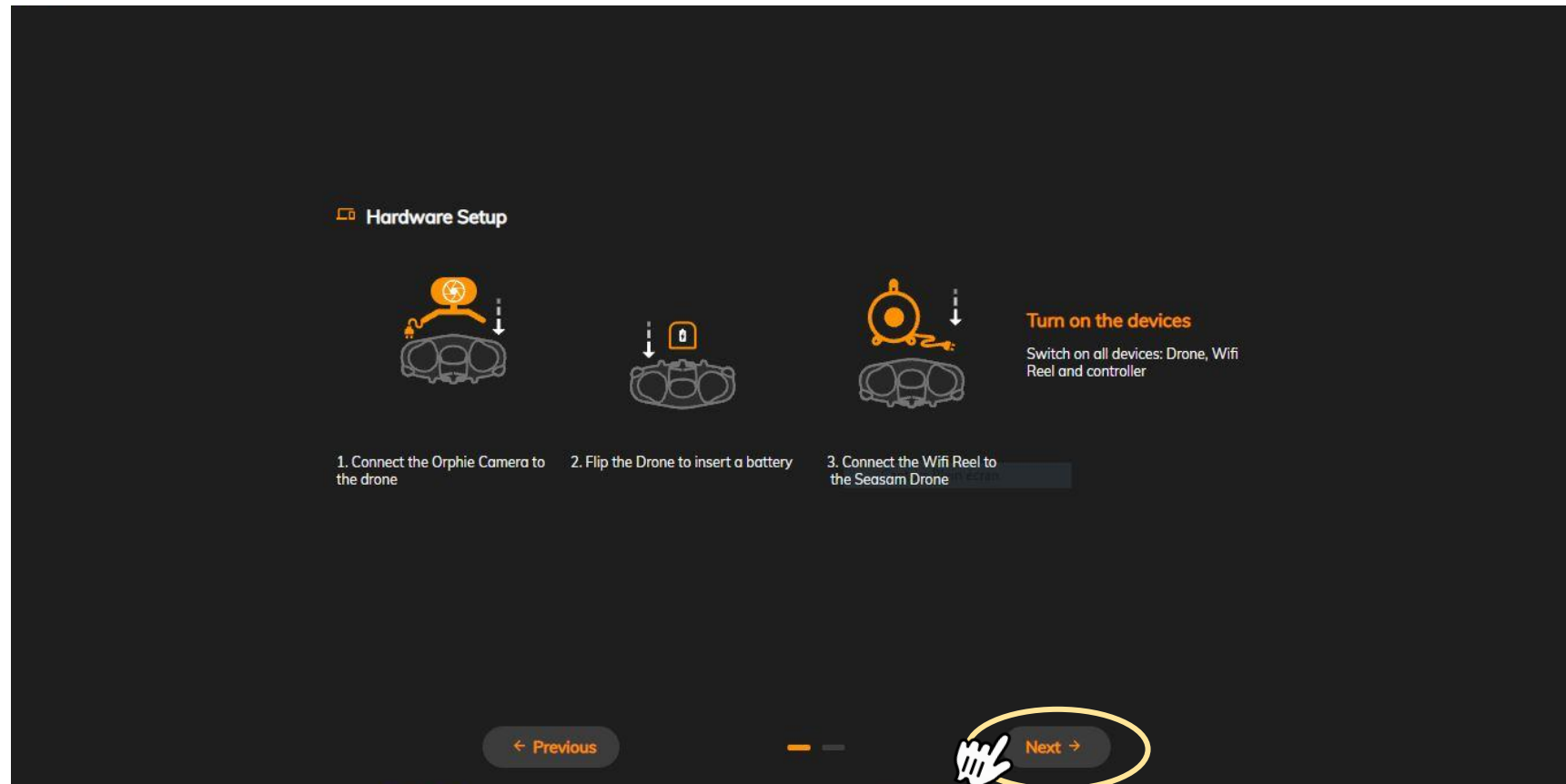
Start Seasam Control or select "Choice of Configuration" if you have already opened the application. In the configuration menu, select "Orphie Camera".



II - STARTING UP THE DRONE

Checking the connections

Check that the indicated steps have been completed and select "Next".



II - STARTING UP THE DRONE

Checking the connections

This screen checks that all the equipment is connected correctly.
Once both connections are checked, click on "Continue" to access the control screen.

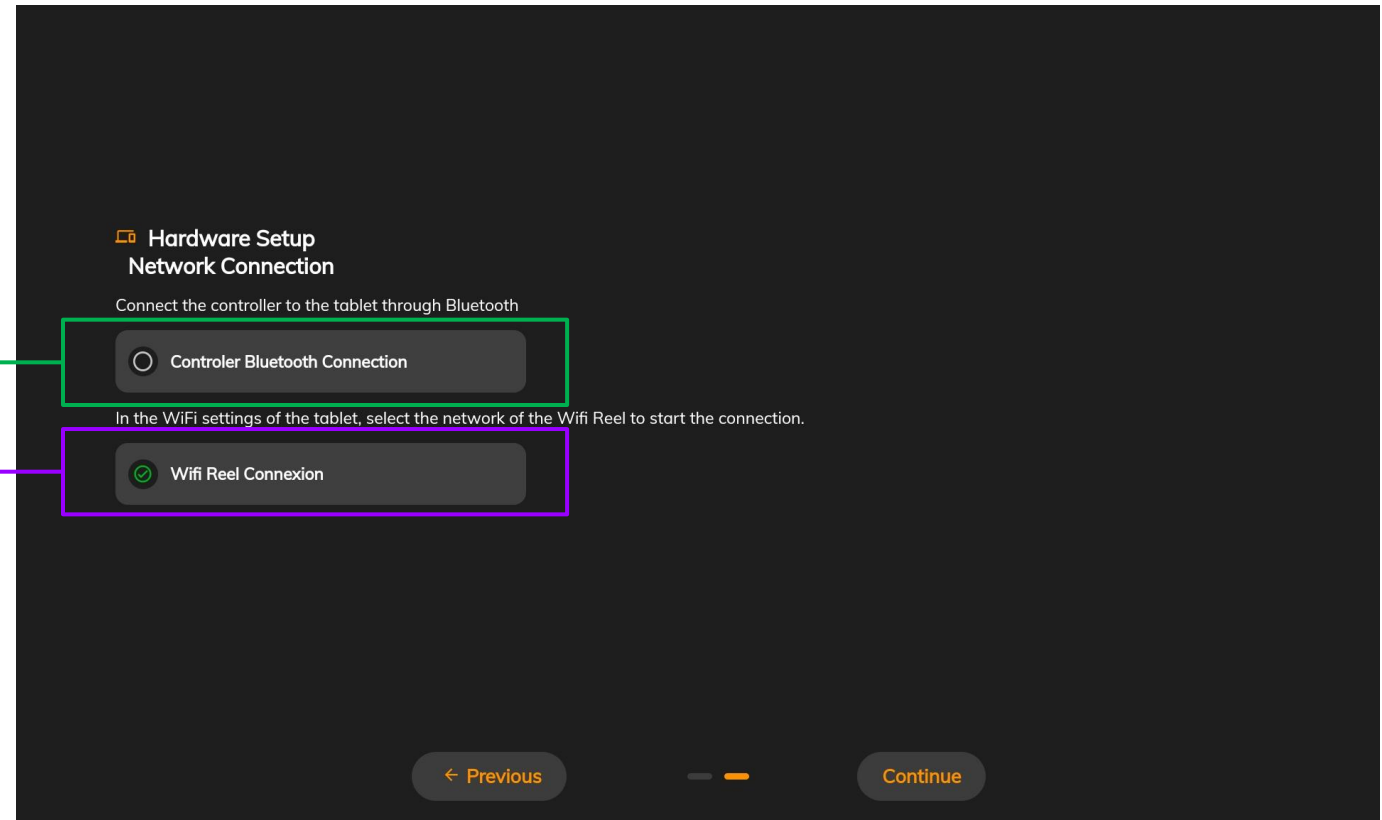
Move a joystick on the controller to have the connection checked.

The system checks that the drone AND the WiFi Reel are **switched on and physically connected together.**

If the green tick takes a long time to appear :

- Wait a few seconds
- Check the physical connections
- Make sure the drone is turned on
- Make sure the tablet is connected to the WiFi reel network
- Go back to the previous page and press "Next" again

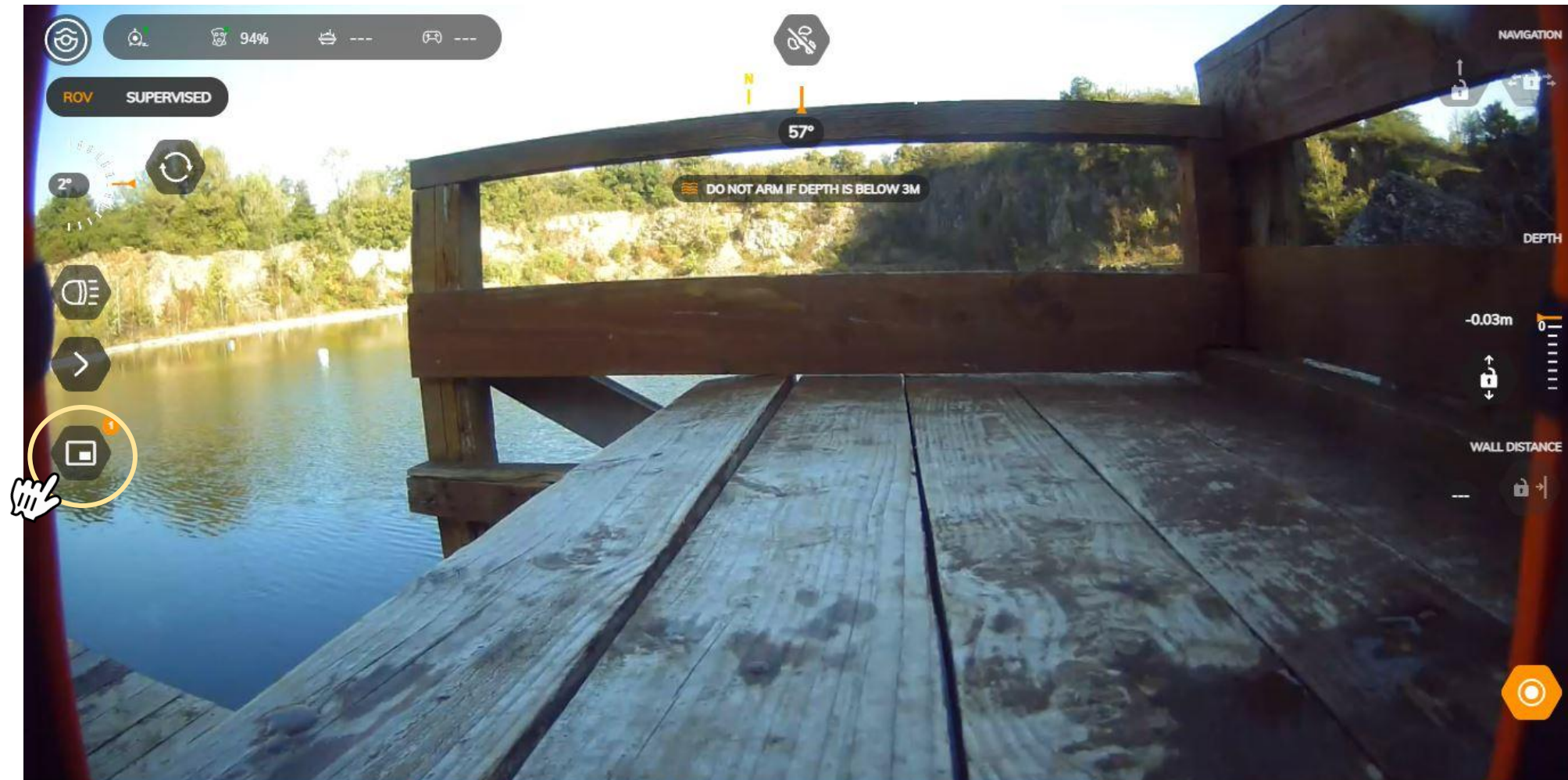
If the problem persists contact support@notiloplus.com



II - STARTING UP THE DRONE

Get both video feedback

The video feedback of the ExploCam will appear at the bottom left of the screen. If not, you can click on the specific widget to display it.



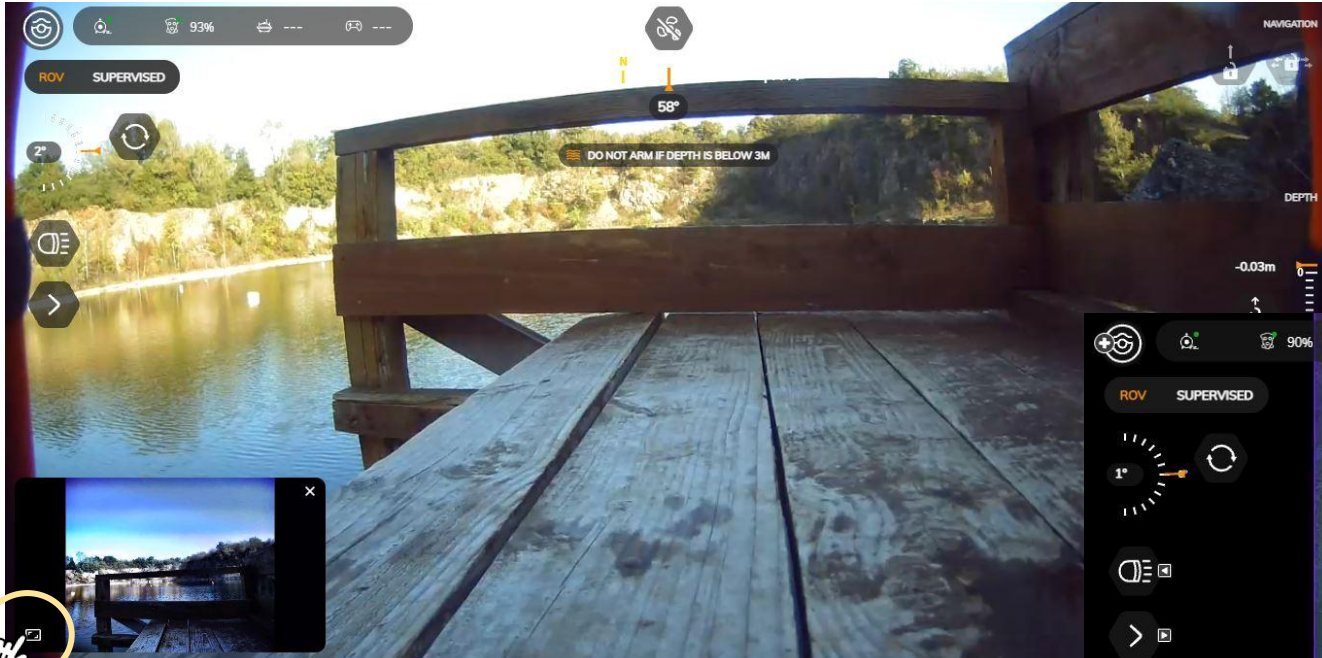
III - USING SEASAM WITH THE ORPHIE CAMERA



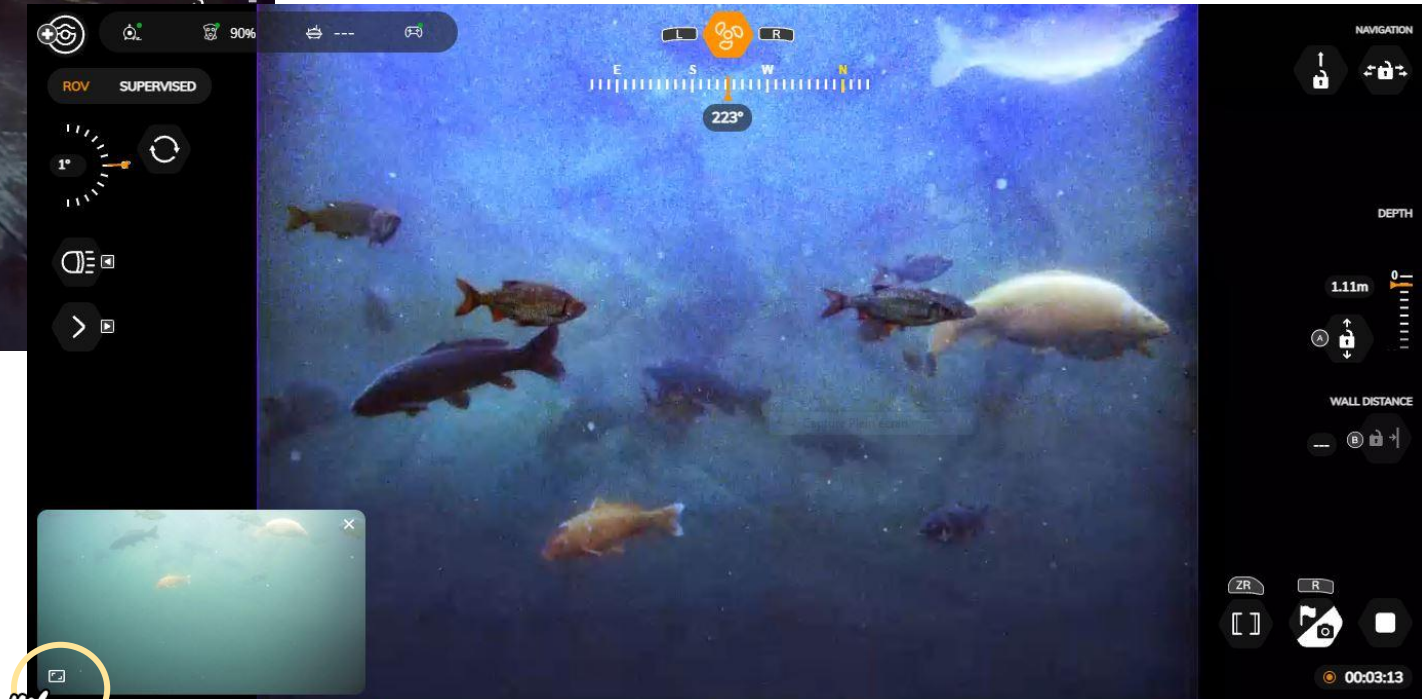
III - USING SEASAM WITH THE ORPHIE CAMERA

Using the Orphie Camera

You can switch the display of the video feedback at any time by pressing the symbol in the corner of the video feedback



As the Orphie camera is located above the drone, the video feedback will not be seen from the same angle as the drone's video feedback.



III - USING SEASAM WITH THE ORPHIE CAMERA

Videos from the Orphie camera

The video from the Orphie Camera is recorded directly on the drone and you can find it on Notilo Cloud once the dive is recovered.

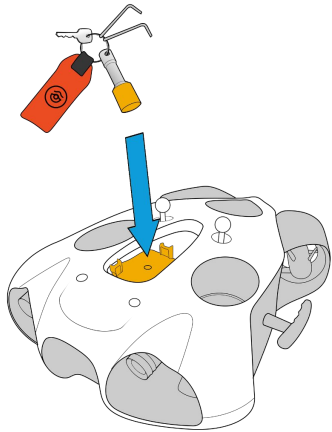
The screenshot displays a video player interface with two camera feeds and a depth graph. The top right corner shows camera parameters: 0.5m, -1.17°, and -73.74°. Below these are tabs for Annotations, Timeline, Flag, and Sequence. The main area contains two video thumbnails, Camera0 and Camera1, both showing underwater footage of a structure. The bottom section features a depth graph titled 'sub_depth | time = 2:09 | sub_depth = -0.49' with a y-axis ranging from -0.45 to -0.6.

Title	Time	Type	Description
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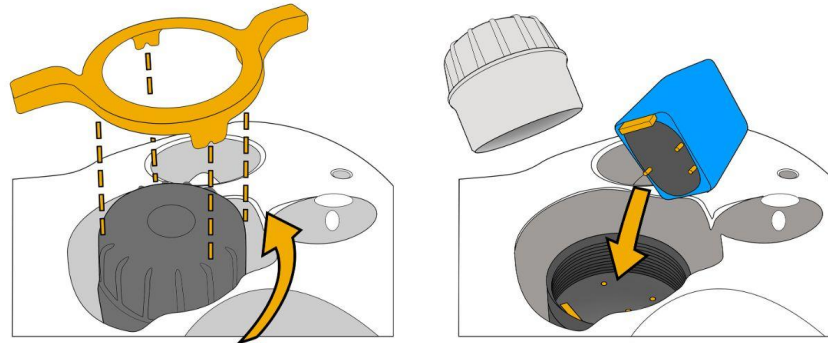
III - USING SEASAM WITH THE ORPHIE CAMERA

At the end of the exploration

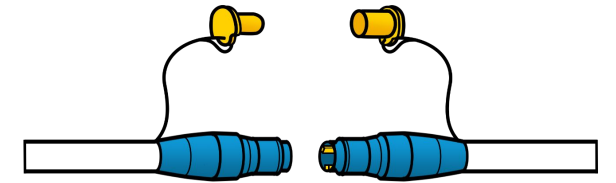
Turn off the drone



Remove the battery



Disconnect the ExploCam from the remote cable of your drone



! Always turn off the drone and remove the battery **BEFORE** disconnecting the Orphie camera from the Sensor Network cable and your drone.

SEASAM

by  notilo plus

More information : <https://support.seasam.notiloplus.com/>

Contact us : support@notiloplus.com