



Installation and Usage Instructions for the Autopilot System

Navigator Bait Boats



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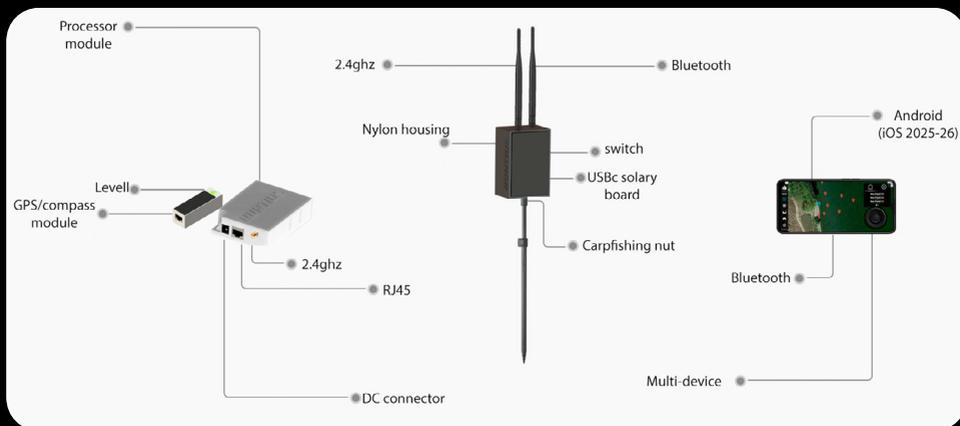


Navigator Autopilot System Instructions

Introduction

The autopilot system allows remote control of a bait boat through an application compatible with mobile devices and tablets on Android and iOS. The system consists of three main components:

- **Internal Bait Boat Modules:** Sensors and controllers installed in the boat.
- **Repeater Box:** Located on the shore, it acts as a signal intermediary and amplifier.
- **Mobile Application:** User control interface.





1. Physical Modules

1.1 Installation of the Internal Bait Boat Modules

Recommendation:

It is recommended that the installation be performed by a professional in the field to avoid interference and ensure optimal performance.

1.1.1 GPS Module

Ubication:

It should be installed away from motors or servomechanisms to avoid electromagnetic interference with the compass.

It is recommended to use a mechanical compass to find the best installation position.

Operation:

Once powered on, it will light up with a green light and begin flashing when it detects GPS satellites.



1.1.2 Main Module

Ubication:

It can be installed in any position inside the bait boat.

Connections and Power Supply:

- Connect to the GPS module using an RJ45 cable.
- It should be powered via a DC cable, using the same battery voltage to provide telemetry to the application.
- It is recommended to install a switch to cut off the power when the system is not in use.
- Indicator: Once powered on, the indicator light will turn red.
- Antenna Extension Cable and 2.4 GHz 6 dBi Antenna (to ensure a range of over 500 meters).
- Tricolor cables for:
 - **Channel 1: Left motor.**
 - **Channel 2: Right motor or rudder.**
 - **Channel 3: Left hopper.**
 - **Channel 4: Right hopper (if present).**
 - **Channel 5: Lights.**
 - **Channel 6: Undefined.vbvv**

The tricolor connectors that go directly to the speed controllers or servos should be connected to the top of the channels; the connectors that go to the radio control receiver (if present) are located at the bottom.



1.2 Installation of the Repeater Module on the Shore

Ubication:

- The base of the repeater has a nut that allows it to be screwed onto a carp fishing spike.
- It is recommended to use a spike approximately 1.80 meters in height, positioned away from vehicles or other electronic devices to avoid interference.

Charging and Power Supply:

- It has an internal battery that can be charged via USB-C (side port of the box). It also features an integrated solar panel that can maintain the battery charge.



LED Indicators:

- **Bottom right side:**
 - Red Led: Indicates that it is charging.
 - Blue led: Indicates full charge when connected via USB-C.
- **Top (Battery Level):**
 - 1 LED ON: 0-25%
 - 2 LEDs ON: 25-50%
 - 3 LEDs ON: 50-75%
 - 4 LEDs ON: 75-100%
 - LEDs flashing: Indicates no connection between the bait boat, the repeater, and the application.



Antennas:

- Tightly screw the 2.4 GHz 6 dBi antennas into the upper nuts before use.

Usage Recommendations:

- Fully charge before each outing.
- It is not waterproof; it is recommended to protect it from moisture and water.
- Turn off the device when not in use.
- The unique device ID kit, located at the bottom right corner of the front acrylic, must be entered into the application the first time it is used.



2. Navigator Bait Boat App

2.1 App Configuration and Usage

2.1.1 Download and Installation

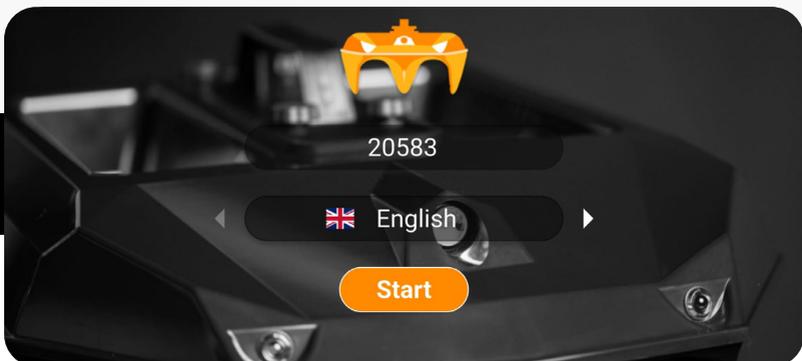
- The Navigator Bait Boat app is available for Android and iOS on the respective Play Store and Apple Store.

2.1.2 App Permissions

- When opening the app for the first time, several necessary permissions will be requested; these must be accepted.
- If the app is not used for an extended period, some permissions may be disabled. In that case, you should check in Settings > Apps to ensure that Navigator Bait Boat has the necessary permissions enabled.

2.1.3 Registration and Initial Setup

- A welcome screen will appear asking for the Kit ID (five digits engraved on the bottom right of the acrylic front of the box).
- Enter the five digits of the Kit ID.
- Select the limitation percentage (consult with the person who installed the system).
- Choose the language and press Accept.





2.1.4 Connection with Devices

- Make sure that both the repeater box and the bait boat are powered on, with charged batteries and antennas properly installed.
- On the left sidebar, at the bottom, connection icons will appear. These should be displayed in white, indicating a stable connection.



2.2 Manual Control Check

1. Verify Joystick Functionality:

- Use the joystick located at the bottom right of the screen.
- Drag it from the center in all directions to verify that the motors or rudder respond correctly and turn in the correct directions.

2. Hopper and Lights Test:

- Quickly press the hopper buttons twice to open or close them.
- Repeat the action to turn the lights on and off.

3. Cruise Speed Mode:

- Click the center of the joystick twice to activate cruise speed mode.
- Press it again twice to stop the boat.

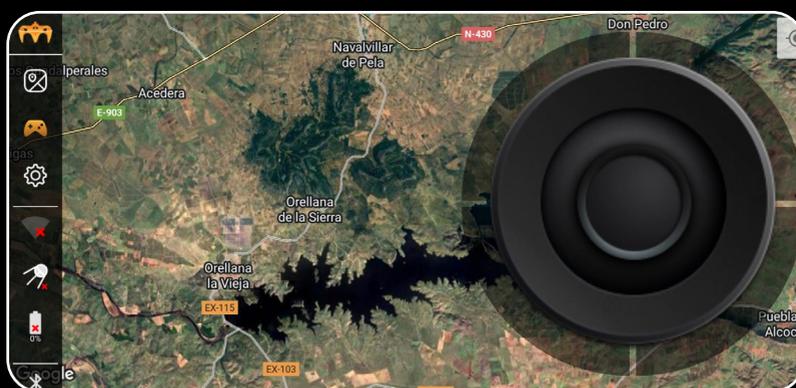


Note:

If any motor rotates in the opposite direction or if a hopper or light is not working properly, you should contact the person who installed the system to perform a full calibration again.

4. GPS Connection Check:

- Once the movement is verified, check the sidebar to ensure that satellites have been acquired. For maximum accuracy, wait until 12 satellites are connected.
- The boat icon should appear on the map in the correct position.





3. Saving Spots

3.1 Saving home Spot

Important:

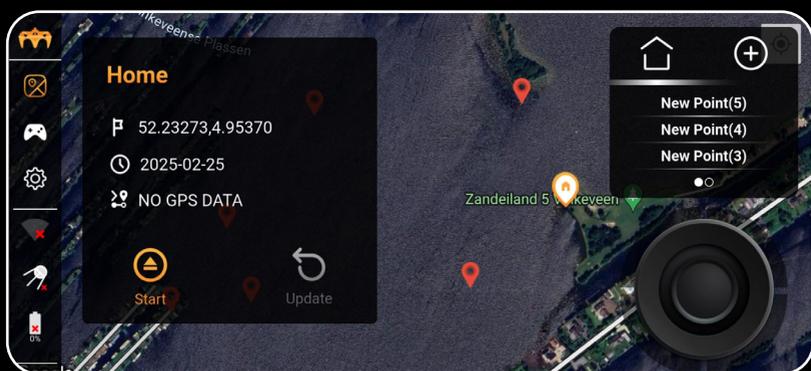
- Before using the boat on the water, it is mandatory to save the Home spot, which will be the reference point to which the boat will return in case of signal loss or low battery.

Steps to Update the Home Spot:

- Press the home icon in the top right corner of the screen.
- Press the "Update" button twice to save the home spot at the boat's current position.
- Alternatively, you can press "Update" once and then long-press on the map at the desired location for the Home spot.

Confirmation:

- Once saved, an icon of a balloon with a house will appear on the map at the desired location.

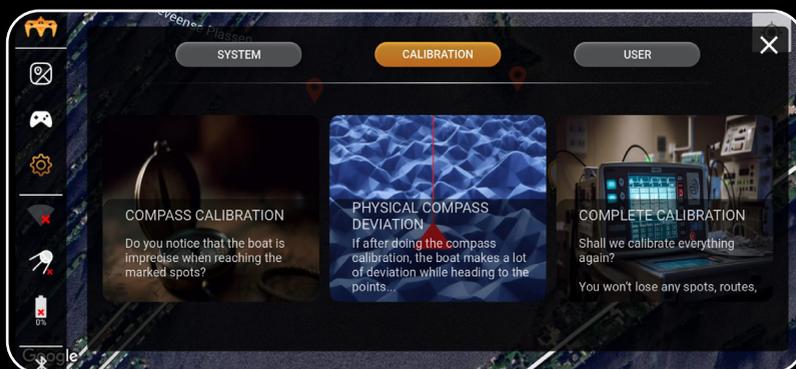




3.2 Compass Calibration

1. Save the Home spot.
2. Place the boat in the water and move it approximately 5 meters away from the shore.
3. Go to Settings in the left sidebar.
4. Select Calibrations at the top of the section.
5. Select Compass Calibration and follow the instructions.

If the boat does not move during calibration, increase the values for “Total Speed” and “Orientation Turn” in the general settings, and repeat the process.





3.3 Saving Destination Spots

There are four methods to save a spot/destination on the map:

1. Press and hold on the map:

- A point creation box will appear with a pin at the selected location.
- It will display the distance from the saved Home spot, the distance from the boat to the spot, the creation date, and the name.
- You can change the spot's name and save it or cancel the action.

2. Using the "+" icon at the top right:

- The pin will be placed at the boat's current location, providing a quick and precise way to save the spot at the boat's exact position.

3. Using the mobile device's location:

- After pressing the "+" icon, slide the latitude and longitude quadrant sideways until the mobile icon appears. At that moment, the spot will be saved using the device's location. This is very useful for fishing from a boat.

4. Manually entering latitude and longitude:

- After pressing the "+" icon, slide the latitude and longitude until the pencil icon appears.
- Click on the latitude and longitude to manually enter the coordinates.

Confirmation:

Once saved, the spot will appear on the map and in the list of spots on the right sidebar of the screen.



4. Automatic Navigation to a Spot

4.1 Starting Automatic Navigation

1. Select the Destination Spot:

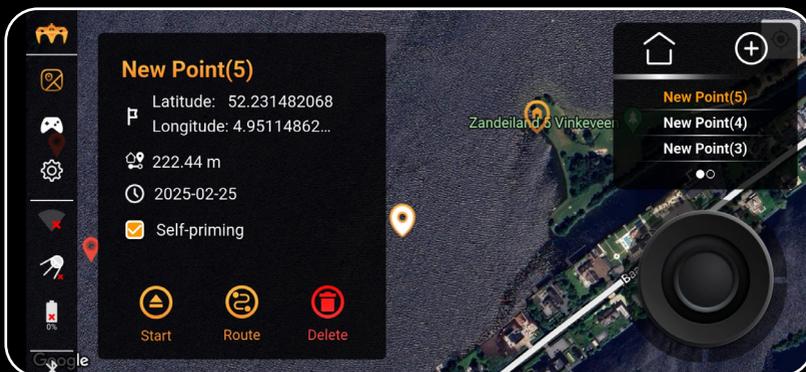
- Tap on the pin on the map or select the spot from the list on the right.

2. Start:

- Press the "START" button.
- The boat will orient itself and automatically head towards the selected spot.

Tip:

- If the boat does not move towards the destination, increase the "Total Speed" and "Orientation Turn" parameters in the settings.



4.2 Stopping Automatic Navigation

To stop the boat at any time:

- Tap on any pin or the Home icon.
- Press "Stop" button.



Deleting a Saved Spot

- Select the point on the map or from the list.
- Press the "Delete" icon to delete it.

5. Security System

1. Home Spot:

- As we have already mentioned, the first thing after confirming that we have a connection with the bait boat, is to always save the Home point. It is CRUCIAL, since it will serve as a reference for the boat to return in case of loss of connection or low battery.

2. Battery Configuration:

- Set the battery type in the app settings (lead-acid, lithium li-ion or LiFePO).
- Depending on the type, the appropriate percentage will be determined and alerts will be sent:
- Low battery alert (10%): It is recommended to return home to recharge.
- Critical alert (5%): The boat will automatically return to the Home point.

3. Connection lost:

- If the connection to the app or bridge module is lost, the boat will automatically return to the Home point.

4. Interferences:

- If interference is detected, you can change the ship's channel from Settings, always being on shore.



6. Updates

Important:

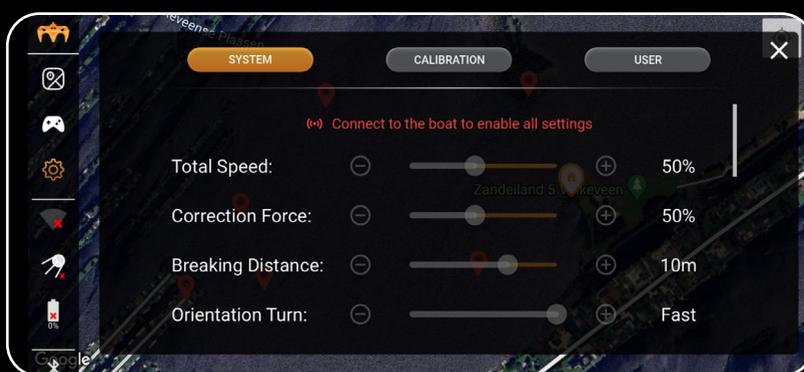
- Updates to the application, the bridge module or the boat's internal module, are key to keeping the system in optimal conditions. It is recommended to keep an eye on social networks and application stores to find out when new versions are released.

Requirements to Update the modules:

- To have internet connection.
- Power on the boat and the bridge for a stable connection.
- Within the app, go to Settings > System to check the versions.
- Click "Update Bridge" and wait for the process to reach 100%.
- Restart the app and the modules, and repeat the process but clicking "Update Boat".
- Reboot the devices and log back into the system to see if the versions have changed.

In case of failure:

- Reboot the devices and repeat the process.





7. Warranty and Contact

Warranty:

The Navigator Bait Boat system has one-year warranty from the date of purchase.

Support and Contact:

For questions, incidents or technical support, you can contact us via email:

info@globalfishing.eu

Additional information:

The system has been designed entirely by Nuntius, a patented brand. The headquarters are located in Madrid, Spain. The product has protected code and copyright.

This document has been prepared to facilitate the installation, configuration and correct use of the autopilot system on your bait boat. It is recommended that you read each section carefully before proceeding to commission the system.



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