

# HELMSMAN

NAVIGATION SYSTEM



## Quick Start Guide

Please read the motor manual before this

## Preparation

Connect the battery to the motor, wait 10 seconds for system to initialize before deploy the motor.

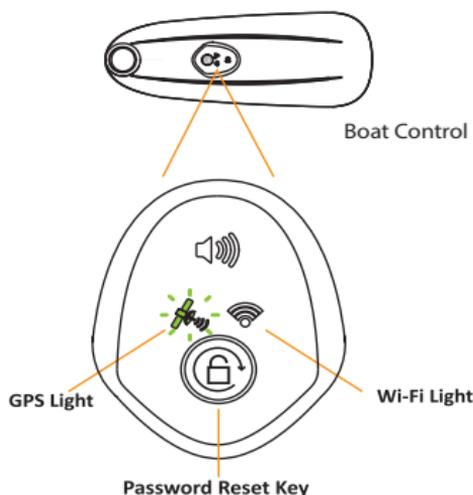
### NOTICE:

It may affect the accuracy of navigation, if deploy the motor early.

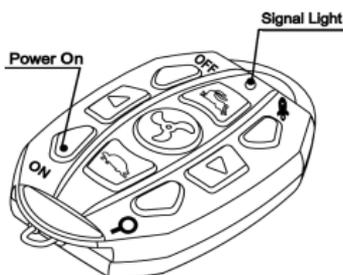
## GPS Connection

To ensure that the motor is used in open area and fine weather, otherwise boat control may not be able to locate.

The boat control will automatically search for GPS signal, then the GPS light of heading is on (2 minutes). If there is no GPS signal for long time, please reconnect the battery.



## Pairing HM-connector (remote control)



Blue light flashes	Searching connections for cell phone and boat control.
Blue light on	Cell phone and boat control are connected.
Red light flashes	Remote control sending command signal.
Red light on	Low battery, HM-connector function disable.

Power on the HM-connector. Wait for seconds until the WI-FI light of the boat control is on. Now HM-connector and boat control are WI-FI connected.

Please make sure your cell phone is connected to Internet via cellular data network.

Turn on the Bluetooth of your cell phone.

Bring the HM-connector close to your cell phone and tap  button in helmsman App.



Select HM\_XXXX to set up the Bluetooth Connection between your cell phone and HM-connector. If success, a word " Connected " will appear next to HM\_XXXX and the status of HM-connector light change to Blue light on .



**NOTE:**

If you can not find the HM\_XXXX , repower on the HM-connector.

Return to Basic Operation . A message **Success** appear on your cell phone indicates that your cell phone and the HM-connector are connected. Now you can use HELMSMAN App to control your motor.



**NOTE:**

HM-connector act as a bridge that connects the cell phone and the boat control, therefore you need to make sure it is power on and keep it close to your cell phone meanwhile using the HELMSMAN .

# Set-up your own WI-FI password ( avoid interference of other HM-connectors )

Tap  button, select  Wi-Fi Password and change it. After change the password, you have to reconnect power of the motor and repower on the HM-connector for the system to recognize the new WI-FI password.



## Helmsman APP Setting

To avoid risks and enhance the control experience, it's highly recommended to learn about the APP setting before first use.

 Instructions

The online instructions describe the latest navigation system functions and troubleshooting.

 China Optimization

Fixed the deviation of coordinates, please enable this function in mainland China.

 Vibration

Smart phone will vibrate when you operate the APP in vibration mode.

 Navi Mode

You can select a suitable mode for navigation in different environment.

 Diagnostics

The operation log will be updated to Helmsman Data Center. It helps us to improve product quality and after service.

 My Devices

Lists the information of the devices which have been connected to your cell phone.

# Heading Calibration

Calibrate the compass inside boat control before first use, or when the angle deviation between heading direction and arrow direction is larger than 10 degree.

The correct calibration result is shown in figure.

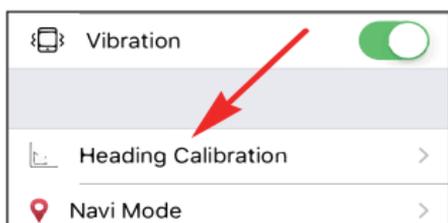
Tap the setting button. Select heading calibration and tap start button.

When the calibration starts, the motor will rotate automatically.

When the calibration is completed, the APP will display the hint.



Point your cell phone to North, then steer the motor and align the heading with your phone and keep it at least 0.5 meter away (avoid the magnetic interference). Check if three directions keep in straight line.



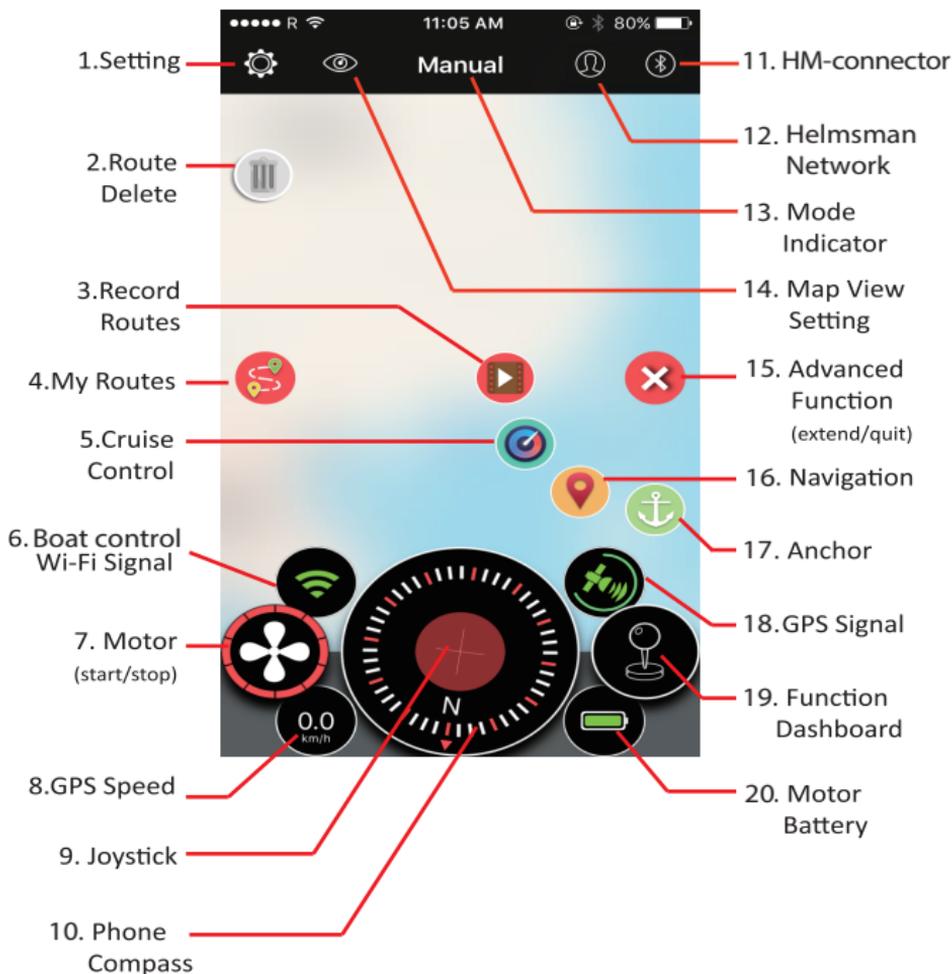
## NOTICE:

Before heading calibration, please calibrate your cell phone compass first.

Please make sure there has no magnetic interference around the heading.

# Basic Operation

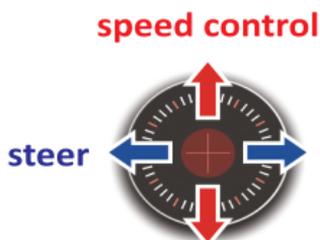
You can operate all the functions with your smart phone. Whether manual control or advanced functions, simple UI interface is easy to operate.



# Manual Control



double tap  
motor  
start/stop



long drag joystick upward  
full speed  
activate/quit

Full speed function can be activated only when the motor is on. Please start the motor first.



## NOTICE:

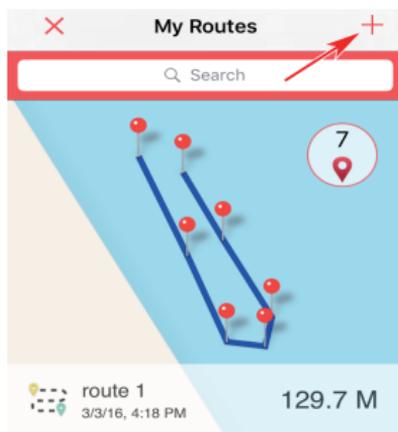
In case of emergency, push the home button of your cell phone, the Helmsman APP will quit and the motor will stop immediately.

# My Routes



## tap to enter

In My Routes interface, tap “New Route” button to create a new route on the map directly. By pressing in map, you can add new waypoints. You can also edit the exist waypoints by pressing it and dragging to the new location.



save the new route into My Route list



upload the route to boat control and it will begin to navigate automatically

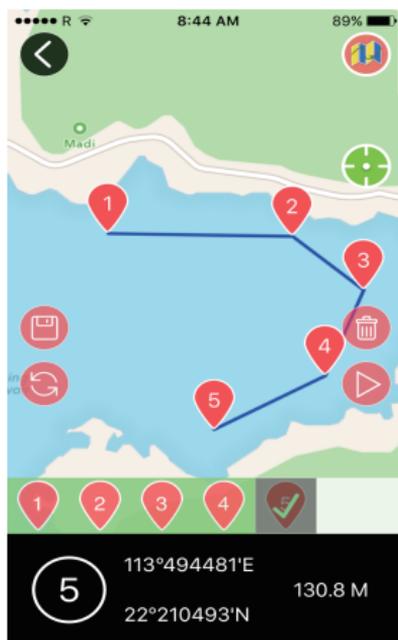


reverse the route for return used.



delete the selected waypoint.

For more information, please read the online instruction in APP setting.



# Advanced Functions

Tap  , 4 advanced functions will appear:



**Record Route**



**Navigation**



**Cruise Control**



**Anchor**

## NOTICE:

All the advanced functions can be used only in case of the GPS is connected. The accuracy of advanced functions are related to the intensity of the GPS signal

## Record Route



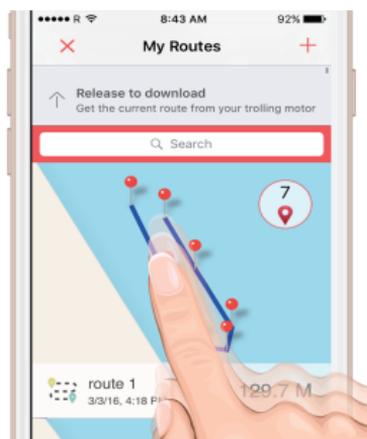
**tap to start**



**tap to finish**

You can record the manual-driven routes so you can re-use them on your next trip.

when Record Route is activated, the motor will begin to record the manual-driven route automatically.



If record route function is interrupted, please tap  then drag and release the list to download route from motor.

# Cruise Control



tap to activate



tap to quit

Cruise control is for efficient sailing in straight line with a set GPS speed.

Please set up the desirable speed and start the motor before entering cruise control mode.

## NOTICE:

In Cruise control mode, you can steering manually to avoid the obstacle and adjust the cruise direction, but the motor speed can not be changed.

# Navigation



tap to activate



tap to quit



tap to delete route

Before activate navigation function, you have to upload a route from My Routes or Record Route onto map first.

when you tap  in last navigation, the motor will switch to manual mode, the route will maintain in the map. You can tap , the motor will firstly drive to the nearest waypoint then resume the navigation.

You can tap  to delete the existing route on the map .

## NOTICE:

When navigation is activated, you can still change the speed and steer manually to avoid obstacles.

When the motor arrives the final waypoint, the motor will enter the Anchor mode automatically.

# Anchor



tap to activate  
or  
long drag joystick  
downward



tap to quit



When the anchor function is activated, the motor will keep your boat in current location.

## NOTICE:

In anchor mode, the boat control will adjust the speed according to the water flow automatically, you can not control the speed and motor manually.

# Helmsman Network

This is an unique place for share all your routes, anchor spots and new discoveries to your friends. Here we can comments to those who share and download all the functional routes and anchor spots from the network. Helmsman welcome you to join and build a better network together.

HELMSMAN

Email

Password

Sign in

OR

Sign up

If you do not have an account yet.

# An Important Note

Please read this document, the online instructions in the Helmsman APP and the motor manual carefully before your first use.

## Learn More

You can find more updated information about Helmsman navigation system at:

<https://helmsman.im/>

## Safety and Responsibility

You are responsible for the safety and careful operation of your device. The Helmsman navigation system provides the advanced functions to enhance your control experience, but you have to pay attention to avoid potential dangers by yourself. You must always be ready to switch to manual control when hazards occur. We are not responsible for the danger and damage caused by function failure of your cell phone. It's strongly recommended to practice how to use the Helmsman navigation system with the motor in an area free from hazards and obstacles.

## Support

If you have any comments and suggestions, please contact us :

[HELMSMAN App > Setting > Help > Customer Service](#)

or email: [hi@helmsman.im](mailto:hi@helmsman.im)