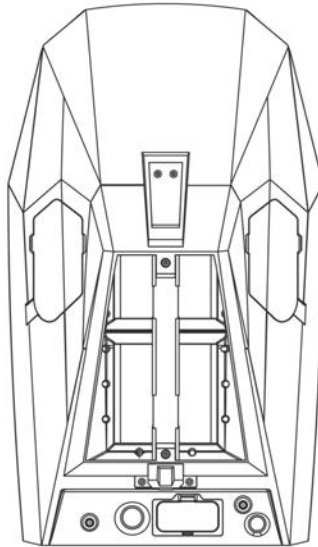


USER MANUAL

CATCHX BAIT BOAT



Remote Control of
CatchX Smart Bait Boat
Model No.:CatchX



CatchX Smart Bait Boat
Model No.:CatchX



Preface

Please take the time to read and understand this manual. Your CatchX Bait Boat will deliver years of trouble-free usage when used and maintained correctly.

Declaration

The policy is one of continuous improvement and we reserve the right to change product specifications without prior notice. Illustrations are for guidance purposes only.

CATALOGUE

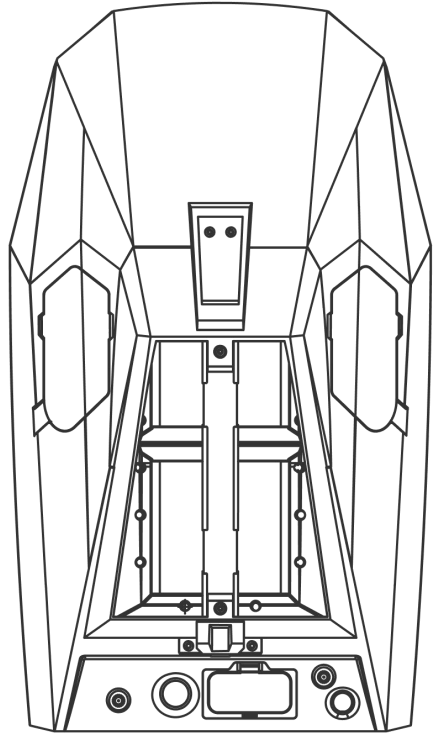
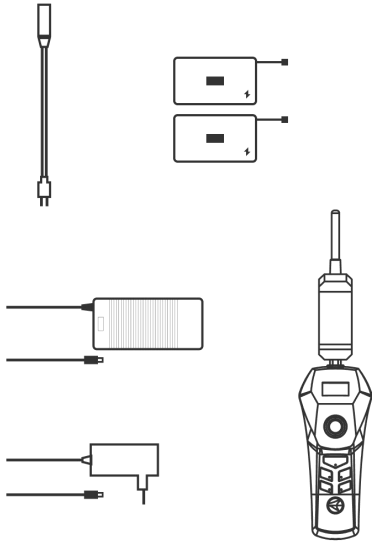
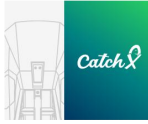
1. What's in the package?	3
2. Technical Parameter	5
3. Features	6
4. Overview	7
5. Charging	10
6. Remote Control	16
7. How to Control CatchX?	17
8. APP Function	26
9. Tips	38
10. Support	41
11. Warranty	42

1. What's in the package?

Your CatchX Bait Boat contains the following items as standard:

- 1) User manual x 1
- 2) CatchX bait boat x 1
- 3) Remote control x 1
- 4) Battery x 2
- 5) Charger for boat (without taking the battery out) x 1
- 6) Charger for Remote control x 1
- 7) Adapt cable for solely charging the battery x 1

Note: Although the battery could be taken out of the boat for charging separately, we still strongly recommend you charge the battery inside the boat.



2. Technical Parameter

Device name	CatchX Smart Bait Boat
Weight	6.6KG (including battery)
Dimensions	H: 293mm W: 358mm L: 615mm
Number of hoppers and hook release	4 independent hoppers, 1 independent hook release
Max speed	1m/s
Max payload	3KG (\approx 0.75 kg per hopper)
Waterproof level	Splash resistant on top, other parts fully waterproof.
Boat lights	1 front white LED light belt; 1 rear red LED light belt
Operating temperature	-10~45°C
Transmitter Power (EIRP)	8dBm max
Operating range	0 ~ 800m
Radio frequency	2.4GHZ data transmission
Remote control	
OLED Screen	0.96 inches
Max transmission distance	800m
Wi-Fi	2412 ~ 2484MHz
Wi-Fi Transmitter Power (EIRP)	17±2 dBm

Battery

Battery type	Cylindrical Li-ion Battery Pack
Capacity	8000mAh * 2
Voltage	11.1V
PACK	3S4P

*We strongly recommend using the chargers supplied by Rippton for trouble-free charging.

3. Features



Autopilot

Users can set the route in advance using the RIPPTON APP or remote control, for full/semi-automatic driving purposes.



APP

Please scan the QR below, or search “RIPPTON” in APP Store (for iOS system) or Google Play, Samsung Galaxy Store or Huawei App Store, to download the RIPPTON for your mobile device. Installing the app requires **Android System 8.0 or above** and **iOS 9.0 or above**.



Lighting System

CatchX has one front white LED light belt and one rear red LED light belt.



Remote Control

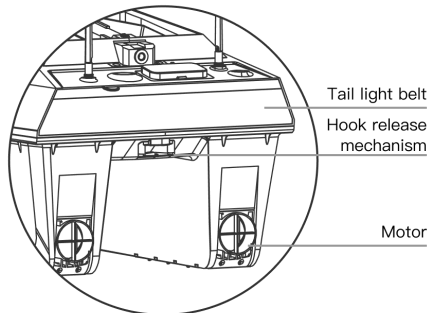
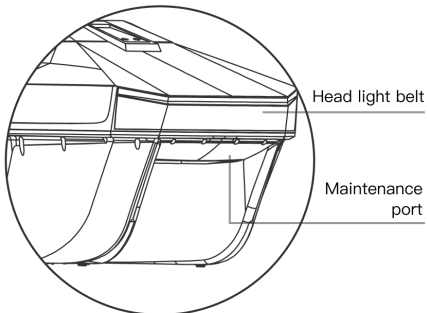
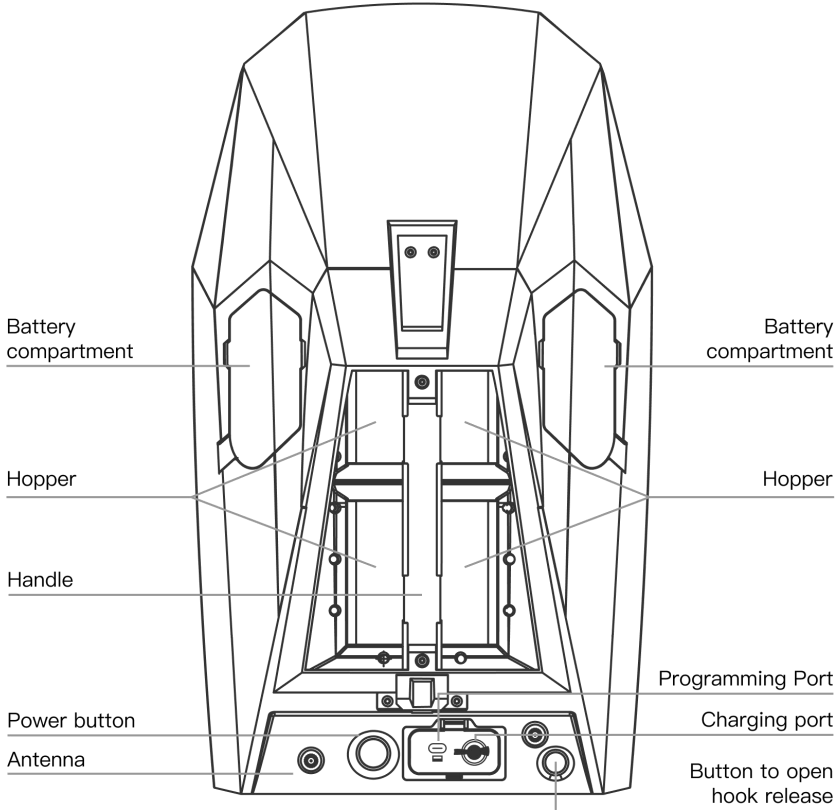
The max transmission range is about 800m.

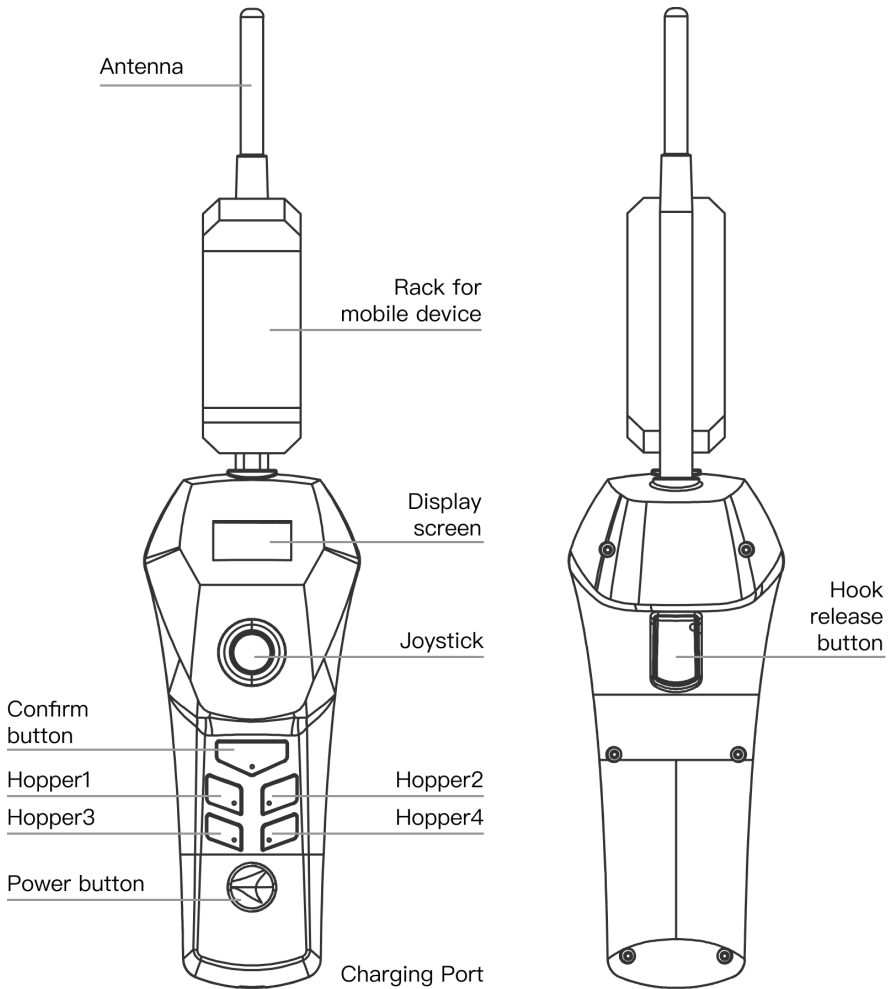


Standby Time

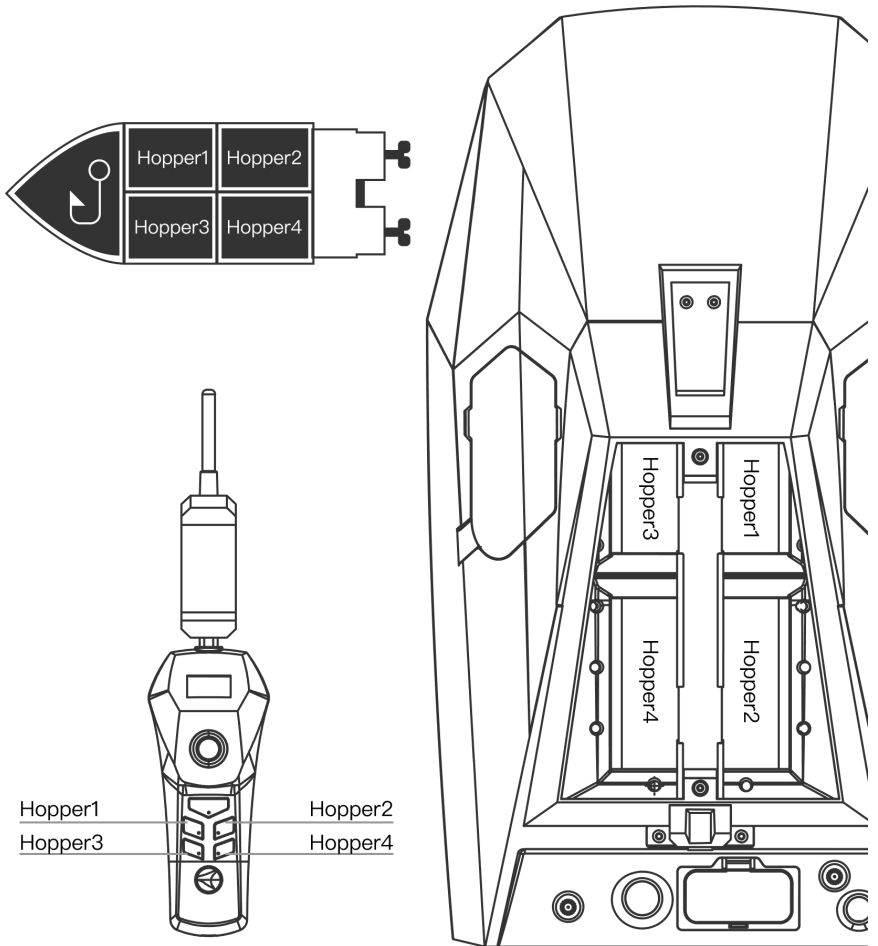
CatchX is able to stand by for 8 hours in water after being switched on, provided the motor remains stationary.

4. Overview



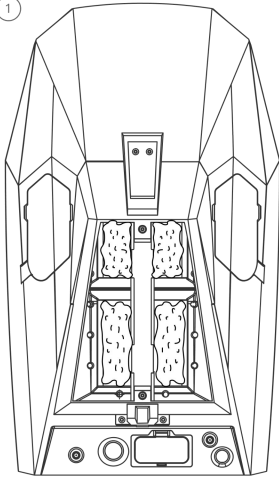


- 1) The remote control isn't waterproof, please keep it away from contact with water.
- 2) The remote control will issue a warning tone when reaching a low level of power.

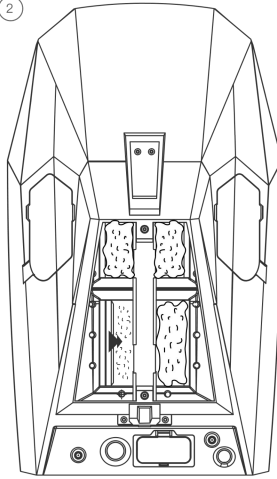


The picture above is able to clearly show the layout of each hopper button on the remote control and the corresponding hopper set on the boat.

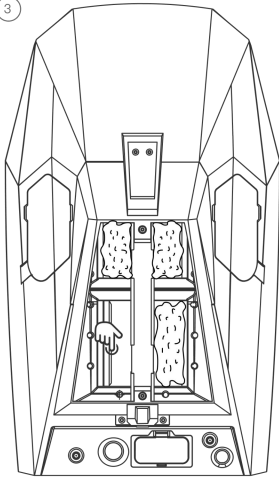
1



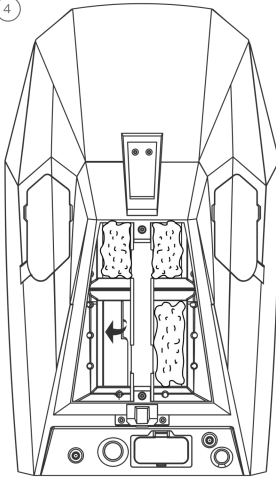
2



3



4



Once the baits loaded in the hopper(s) have been released, you could use your hand to bring the bottom board back to the original position shown as the picture above.

5. Charging

5.1. CatchX Charger

5.1.1. Parameter

Name	12.6V 5A lithium battery charger	
Input	Input voltage	100~240Vac
	Input frequency	50/60Hz
	Input current	1.5A max
Output	Output voltage	+12.6VDC
	Charging current	5A
	Nominal power	63.0W

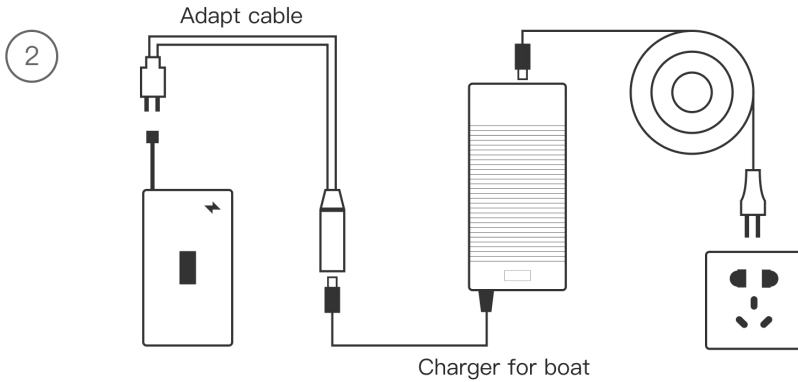
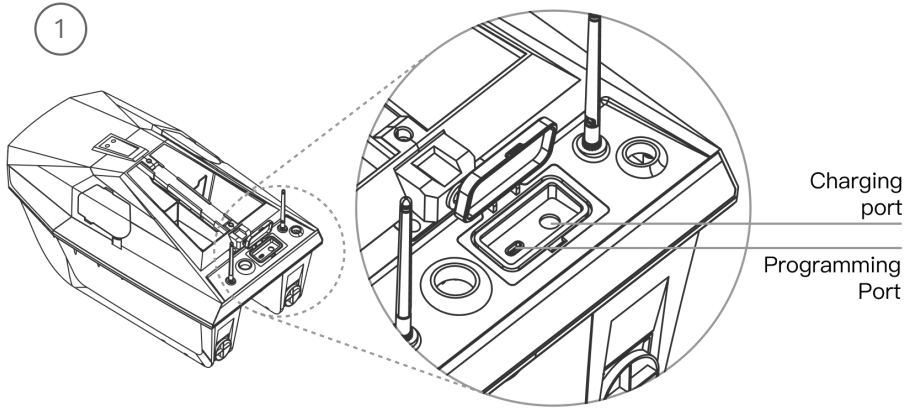
5.1.2. How to charge the battery of CatchX?

Color of LED on battery charger	What it stands for?
Red	Being charged
Green	Charging completed

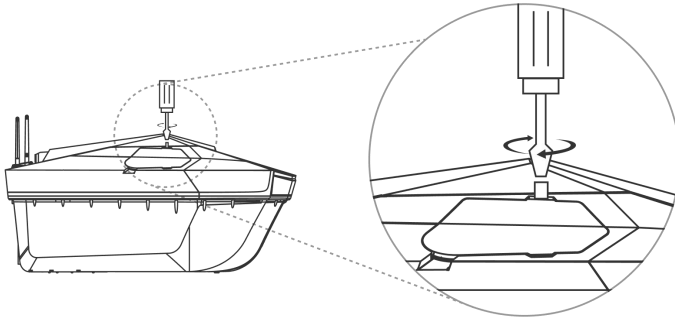
- Direct charging : 5.5/2.5 DC charging port (*please refer to Picture1*).

Please note that both batteries must be inside the boat together when direct charging;

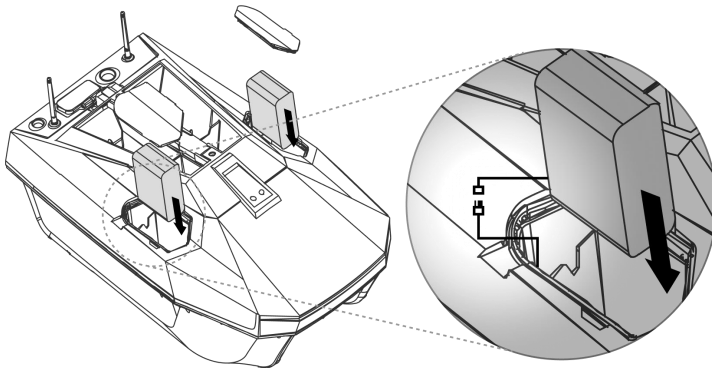
Or



- Charging the batteries separately after taking those out of the battery compartment (*please refer to Picture3*). When charging completed, please reconnect the batteries to the compartment (*please refer to Picture4*), and ensure all the plugs are placed in the right position.



Picture 3. Use your hand or a screwdriver to unlock the battery compartments, and then take the batteries out of them.



Picture 4. Reconnect the batteries to the compartment upon the charging completion, and then re-lock the compartments by the screwdriver.

5.2. Remote Control Charger

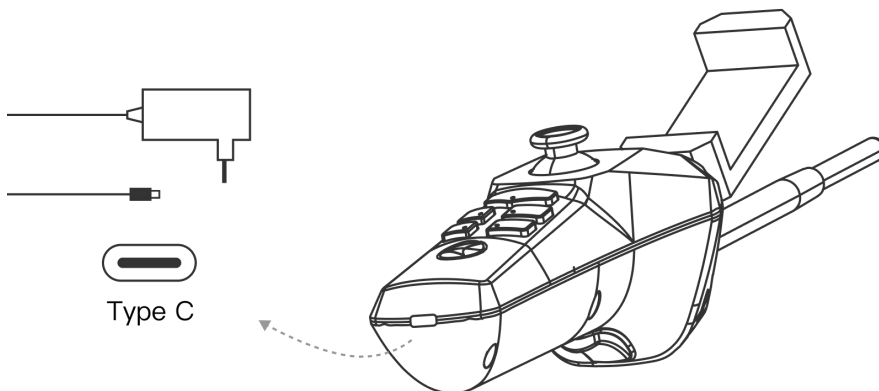
5.2.1. Parameter

Name	5V3A power adapter	
Input	Input voltage	100~240Vac
	Input frequency	50/60Hz

	Input current	1.0A max
Output	Output voltage	+5VDC
	Charging current	3A
	Nominal power	15W

5.2.2. How to charge the remote control

Please refer to the picture below:



5.2.3. Notice

1) For CatchX charger:

- Operating temperature: 0°C~40°C
- Storage temperature: -20~80°C
- In compliance with CE standard
- Please immediately stop using the charger if it gets broken or has water inside.

2) For CatchX battery

- When you set out to operate the CatchX bait boat and its remote control for the first time, please fully charge the new batteries.

-
- It may take 2-3 hours to fully charge the remote control.
 - It may take 4-6 hours to fully charge CatchX when both batteries are inside. Please be sure the power switch is off.
 - It may take 2-3 hours to fully charge one CatchX battery when it has been taken out of the battery compartment. Please ensure that both batteries are fully charged before they are put into the battery compartment. Under all circumstance, the power level of the two batteries should be equivalent or have only very tiny difference.

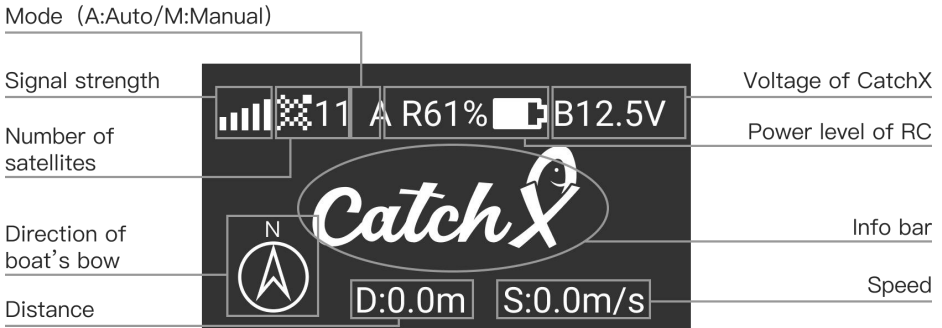
3) Storage of battery

- For long-term storage, please ensure the power switches of both the CatchX and its remote control are turned off, and the power level of the CatchX battery is greater than 80%. If not, the battery will be over-discharged due to a failure of normal use.
- Storage temperature: $-20^{\circ}\text{C}\sim 45^{\circ}\text{C}$ (within one month).
- To avoid decreasing the battery lifetime, the battery should be fully charged every two months, as long-term storage will have a negative impact.

6. Remote Control

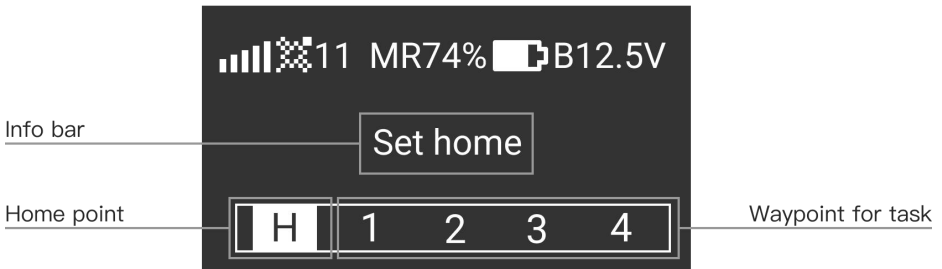
6.1. Home Screen

The “Home Screen” of the remote control is shown as below:



6.2. Task Interface

The “Task Interface” is to help you set the home point of your automatic task, select and save the waypoints therein, and then carry it out.



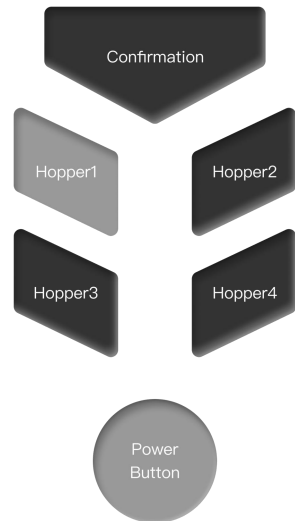
A short press on the joystick will enter “Task Interface” from “Home Screen” (push the joystick upwards to exit “Task Interface”);
When staying on “Task Interface”, the joystick of the remote control is no longer able to control the boat for sailing, but only move the UI cursor thereon.

6.3. How to Connect CatchX with Remote Control?

(The RC is automatically is connected when you first open it; you don't have to do it unless you get the RC repaired or replaced.)

When connecting CatchX with its remote control, please keep them switched off, and follow the next 3 steps:

- 1) Long press “Hopper1” button and short press “Power Button” on the remote control at the same time, in order to enter the frequency matching mode.
- 2) Then short press the power button of the boat, the frequency of the remote control will automatically match with that of the boat.
- 3) The screen of the remote control will give a notice to inform whether the frequency matching has succeeded.



7. How to Control CatchX?

7.1. Preparation

Ensure both the CatchX Bait Boat and its remote control are fully charged and bring the CatchX to the side of the freshwater area where you plan to go fishing.

7.2. CatchX Turning On/Off

When pressing the power button of the boat, the boat will emit a “di” sound 3 times. Then after about 10 seconds, the CatchX Bait Boat will be turned on with another “di” sound, and both the head light belt and the tail light belt will flash simultaneously. If you need to turn it off, just press the power button again.

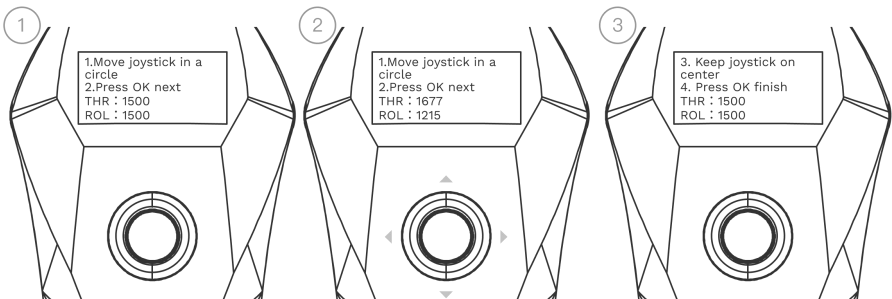
7.3. Remote Control Turning On/Off

For turning on the remote control, please long press the power button of the remote control for 3 seconds, when it will vibrate slightly, and its screen will lighten up with a boot animation, and vice versa for turning it off.

7.4. Calibration for Remote Control

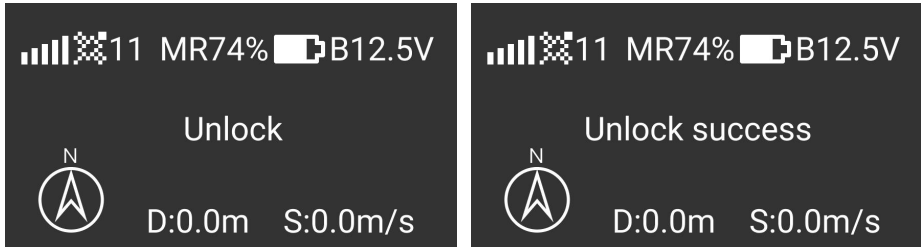
(The RC is well calibrated when you first open it; you don't have to do it unless you get the RC repaired or replaced.)

- 1) Please press and hold on the “Hopper 2” button, then long press the power button of the remote control, it will go to “Calibration Interface” automatically.
- 2) Move the joystick to the maximum extent in all directions, so as to obtain the largest value of the joystick’s moving range, and then press the “Confirmation” button.
- 3) Ensure the joystick stays precisely on center for obtaining the mid-value of the joystick’s moving range, and then press the “Confirmation” button. The whole calibration process for the remote control has been completed.
- 4) Long press the joystick again to exit the current interface.



7.5. Unlock

The user needs to place the CatchX on the ground first and turn it on. Move the joystick to the right end for 3 seconds, and the motors will start to spin. This means your CatchX has been unlocked for use, and you can use the joystick to control the boat sailing on the water.



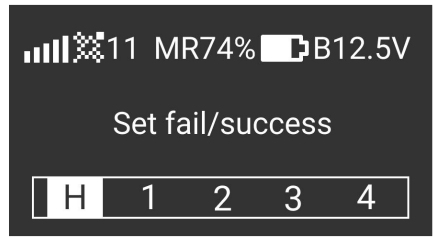
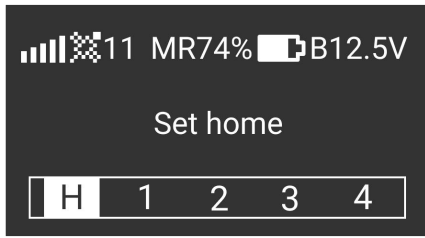
7.6. Sailing

By moving the joystick in each direction (i.e. up, down, right and left), CatchX will follow your order to go forward / backward or make a right / left turn, respectively.

7.7. Set Home Point

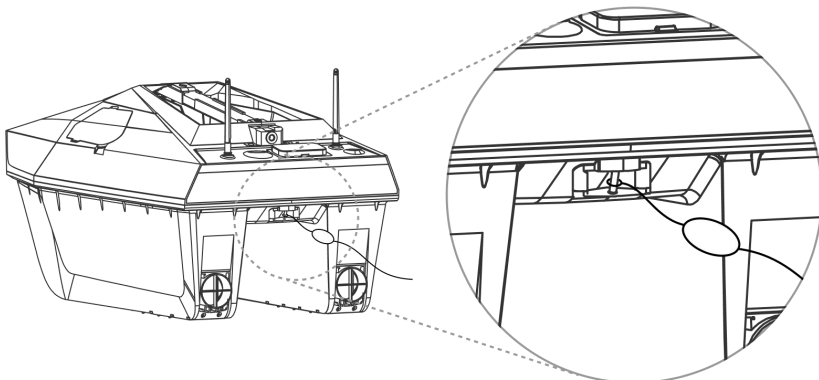
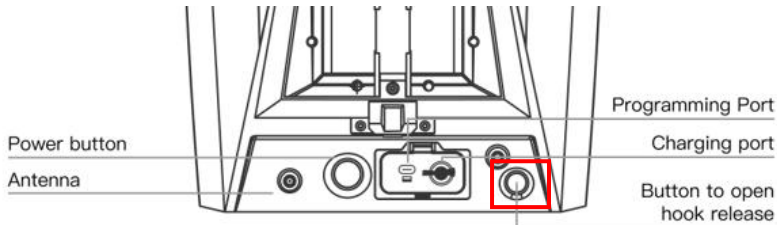
Home point is the co-ordinate that CatchX will return to after the task has been completed. Prior to carrying out any task, the user needs to set the home point.

- 1) Drive the boat to a point that you intend to set as the home point;
- 2) On "Task Interface", please move the UI cursor to "H" and then short press the hook release button on the back of the remote control to set the home point. At the center of the screen, "Set success" or "Set fail" will appear for your notification.



7.8. One Button for Hook Attachment

By pressing the hook release button (shown in red square), the hook release mechanism will open for 5 seconds and then close automatically. The user needs to attach the prepared fishing line to the hook release mechanism before it closes. In the event that time is not enough to make the attachment, please press the hook release button again to re-open the mechanism.



7.9. One Button for Return

Under the manual mode, long pressing the joystick for 2-3 seconds at the “Home Screen” will lead CatchX to automatically return to the home point that has been set in advance.

7.10. Manual Task Mode

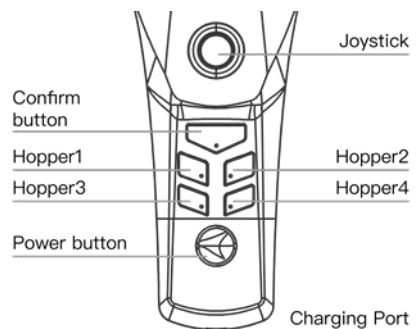
In this mode, CatchX sails to the designated position, and can be used to perform operations such as **hook casting** and **nesting** through the remote control. To perform the task of casting hook and nesting, you must first select the corresponding hopper and hook releasing mechanism. The specific operations are as follows:

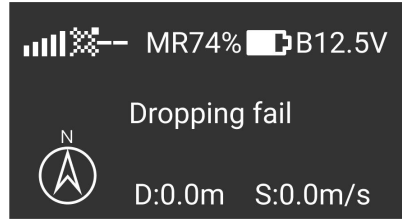
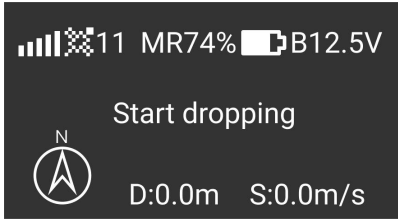
7.10.1. Dropping Berley

The four buttons on the remote control (refer to the picture below) correspond to the four hoppers of CatchX. For instance, press the button named “**Hopper 1**”, the relevant indicator light on the button will light up, indicating that Hopper 1 is selected (short press the button again, the selected hopper will be cancelled). Multiple hoppers can be selected at the same time.

When CatchX sails to the spots where you wish to drop the berley, long press the confirm button on the remote control to implement

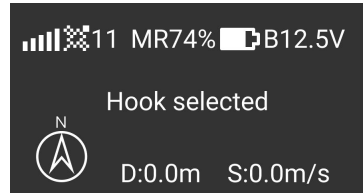
the action. In the event of any error or failure occurring, “Dropping fail” will appear on the screen.





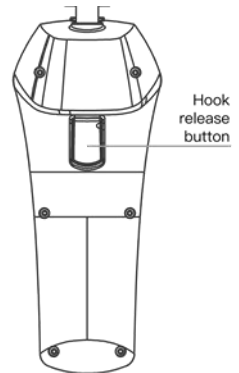
7.10.2. Casting Hook

Long press the hook release button on the back of the remote control, the hook release mechanism will be selected, and the interface will display the selected



prompt message for 2 seconds (long press the hook release button again, and you will be prompted to cancel the selection).

When CatchX sails to the spots where you wish to drop the hooked fishing line, long press the confirmation button on the remote control to implement the action. In the event of any error and failure occurring, “Dropping fail” will appear on the screen.



7.10.3. Check the Selected Status

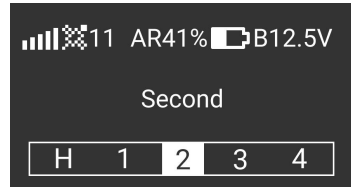
Short press “Confirmation” button to quickly check the selected status of the hopper and the hook release mechanism.

7.11. Automatic Route Task (Remote Control)

CatchX can also set custom route tasks through the remote control. Store the preset casting spots and set the route to quickly realize multi-point casting.

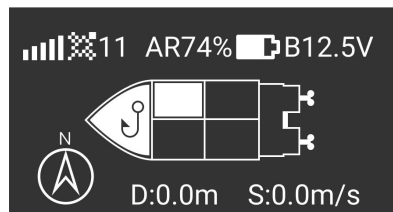
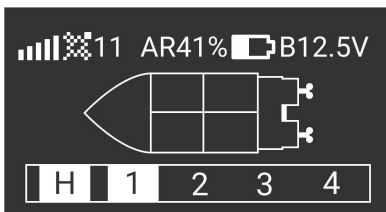
7.11.1. Mission Point Acquisition

- 1) Control the CatchX sailing to the desired spot;
- 2) Short press the joystick to enter the “Task Interface”;
- 3) Move the cursor to the corresponding number position, and short press the hook release button on the back of the remote control, the current position will be stored as a mission point;
- 4) If you see the prompt showing the storage is successful, you can drive the boat to the next spot. Up to four spots can be stored as the mission points, and the spots with stored position information will be highlighted.



7.11.2. Hopper Selection

- 1) After a mission point has been saved, you can assign one or multiple hoppers to it.



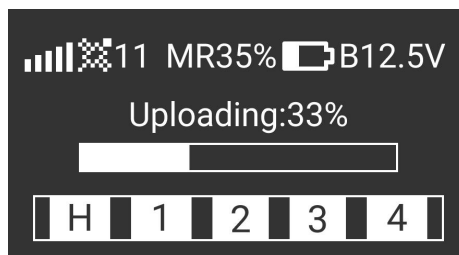
-
- 2) When the cursor moves to the position of the numbered mission point on the bottom of the remote control screen, the hopper diagram will be displayed. Press one of the “Hopper” buttons to assign the corresponding hopper to the numbered mission point. One hopper cannot be assigned to two mission points. If you want to assign more hoppers to one mission point, please repeat the step above.

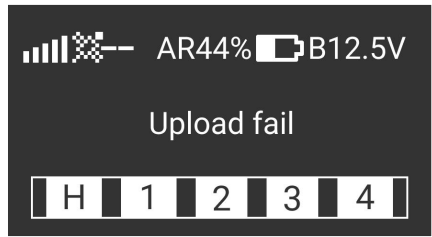
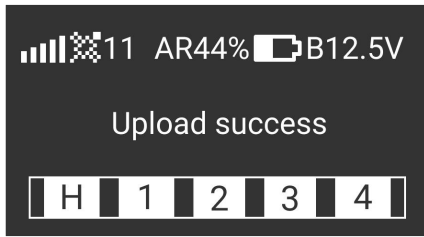
7.11.3. Task Upload and Execution

- 1) Upon completion of Section 7.5.1 and 7.5.2, the CatchX bait boat is nearly ready to implement an automatic casting task after the hoppers have been filled with berley.

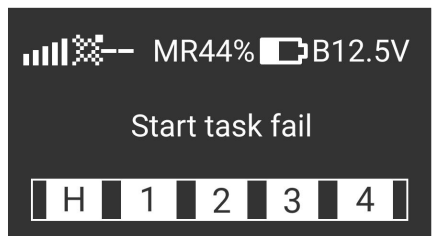
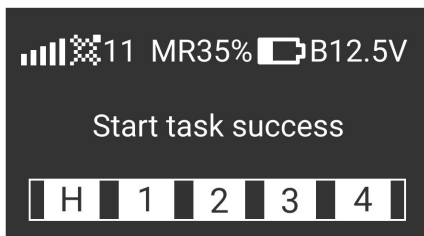
If you only complete the action set out in Section 7.5.1 without following Section 7.5.2, the boat will go to semi-automatic mode in which a hopper selection notification will appear after one mission point has been reached.

- 2) Go to the “Task Interface” and then long press the “Confirmation” button on the remote control; the remote control will upload all the stored mission points and give an order to the boat after the appearance of “Upload success”, and then CatchX will immediately carry out the automatic route task.





The two pictures below will only pop up when the system goes to semi-automatic mode.



7.11.4. Turn to Manual Task Mode

When you intend to quit the Auto Task Mode and get back to the Manual Task Mode, please move the joystick right downwards for 3 seconds at the "Task Interface" or the "Home Screen".

7.12. Control of LED Light Belt

Double click the power button of the remote control to switch on/off both of the head LED light belt and the tail light belt.

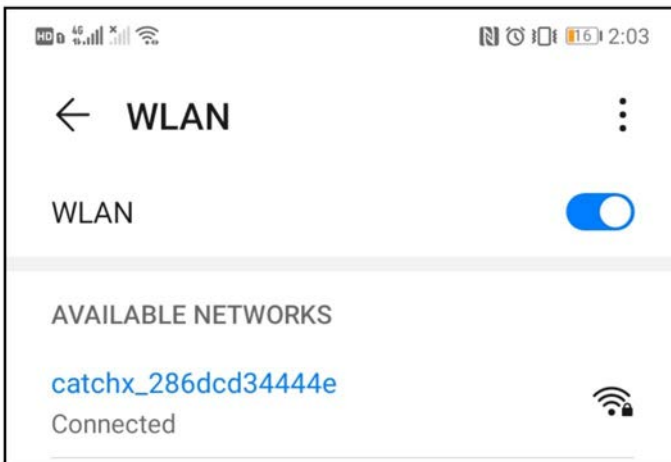
8. APP Function

Please scan the QR code to download the Rippton APP for controlling the CatchX bait boat in a much easier way. Installing the app requires **Android System 8.0 or above** and **iOS 9.0 or above**.

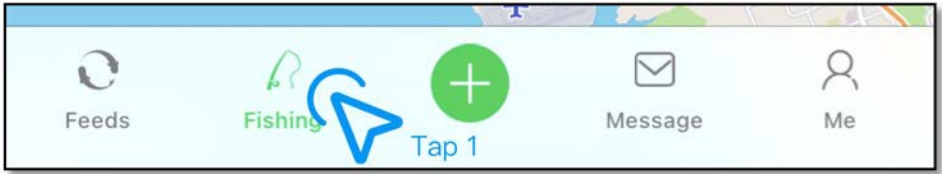


8.1. How to connect CatchX with your mobile device

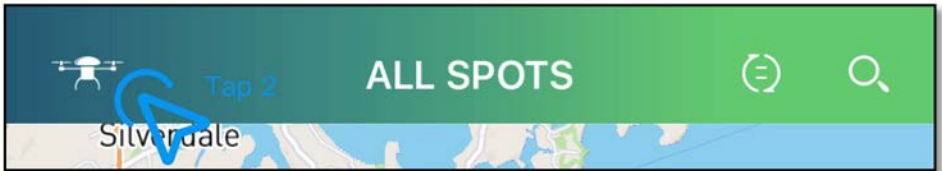
- a) Search for the CatchX's Wi-Fi signal in the settings of your mobile device. Make a connection. The format of the CatchX's Wi-Fi name is catchx_xxxxxx, and the password is 12345678.



- b) Enter the App's home page. Tap **"Fishing"** on the bottom bar.



- c) Then tap the icon on the top left-hand corner to enter the smart device connection page.



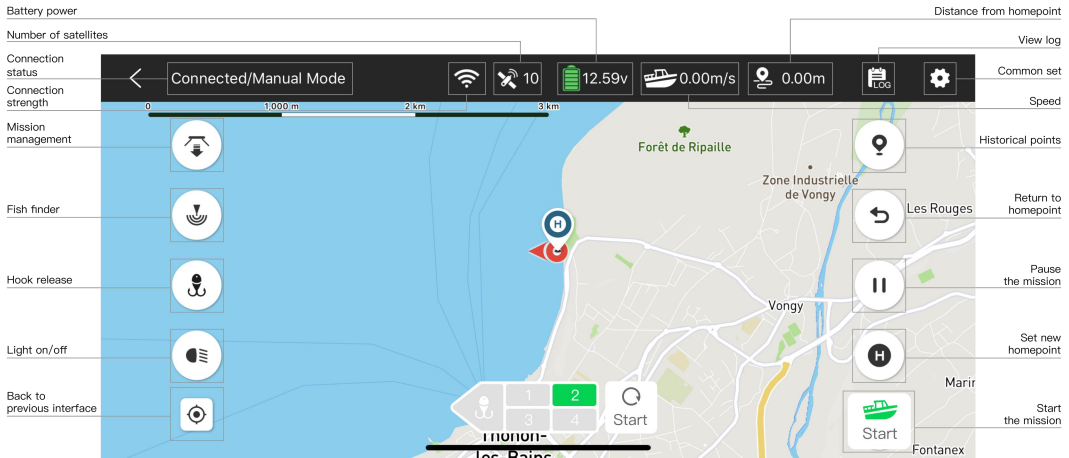
- d) Tap "Enter" to complete the connection.

CATCHX



Enter

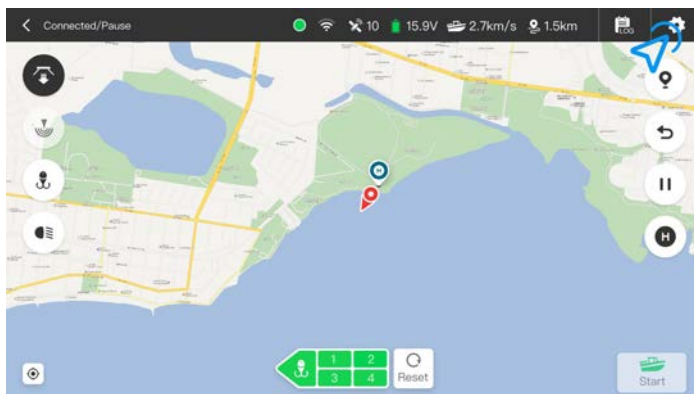
8.2. Brief Introduction of the APP Interface



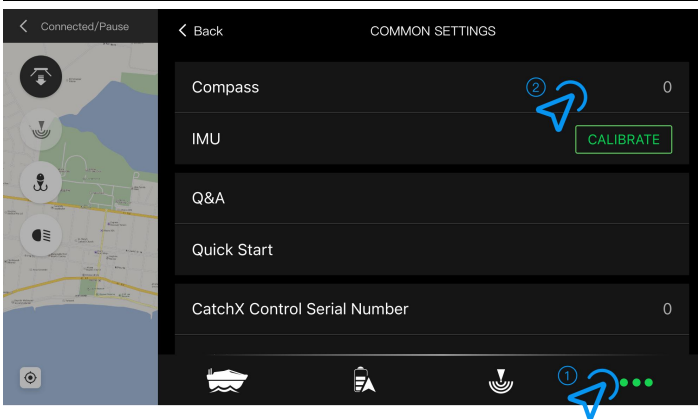
Notice: When number of satellites is lower than 10 or the signal strength is weak, it may impact the APP's controlling effect, or even make some of functions ineffective.

8.3. Calibration for CatchX Bait Boat

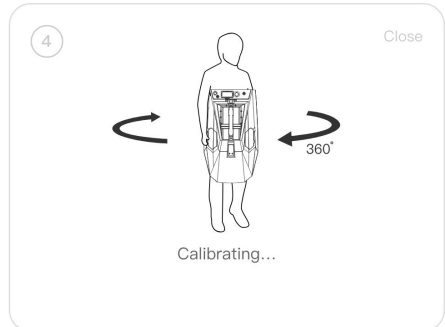
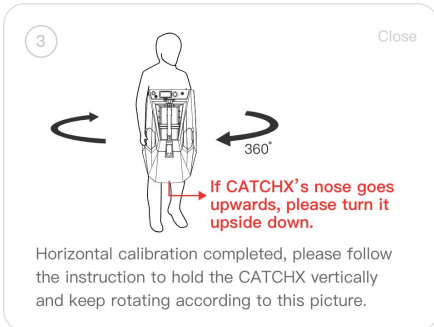
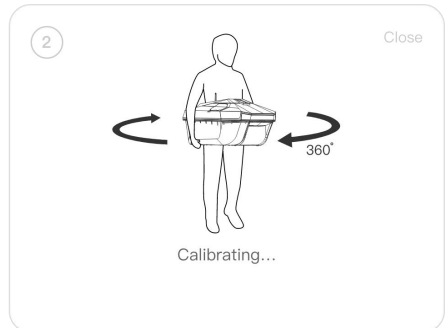
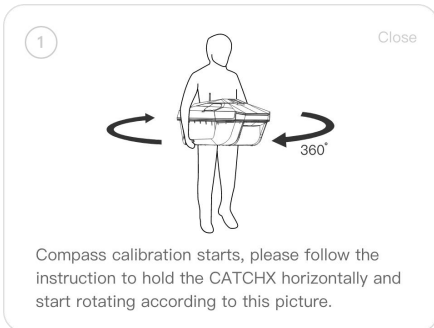
- Before the calibration starts, please first connect CatchX with your mobile device (refer to Section 8 of this manual).
- When connected, please tap the cog icon on the top right-hand corner of the APP interface to enter "Common Settings" as below:

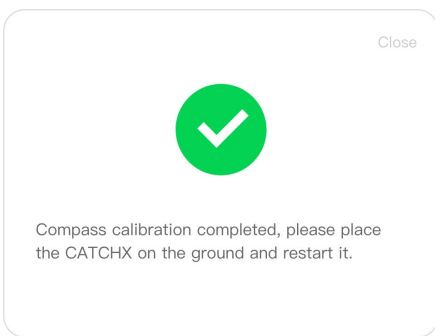


Then tap "Ellipsis" icon on the bottom right-hand corner for calibration.

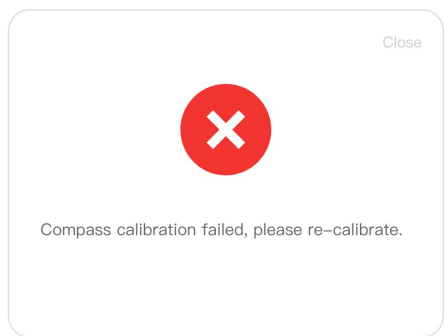


Press “Calibrate” on the line of “Compass” to start the whole calibration process:






OR

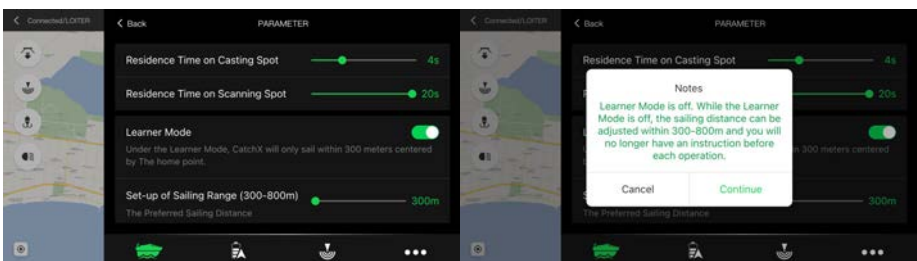


Note:

- For horizontal calibration, please keep CatchX's nose facing outwards. For vertical calibration, please ensure CatchX's nose always goes downwards from the beginning.
- Clockwise rotation.
- Please restart CatchX Bait Boat upon completion of the calibration.
- You will be suggested to do a calibration when you try to use the boat in a new location where is 3km away from the last location you went to.

8.4. Learner Mode

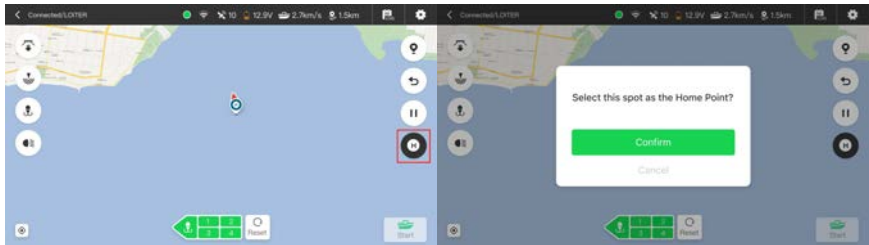
The **Learner Mode** (sailing range limited within 300m) is automatically on the first time you enter the page. It can be turned off in **Common Set**. 



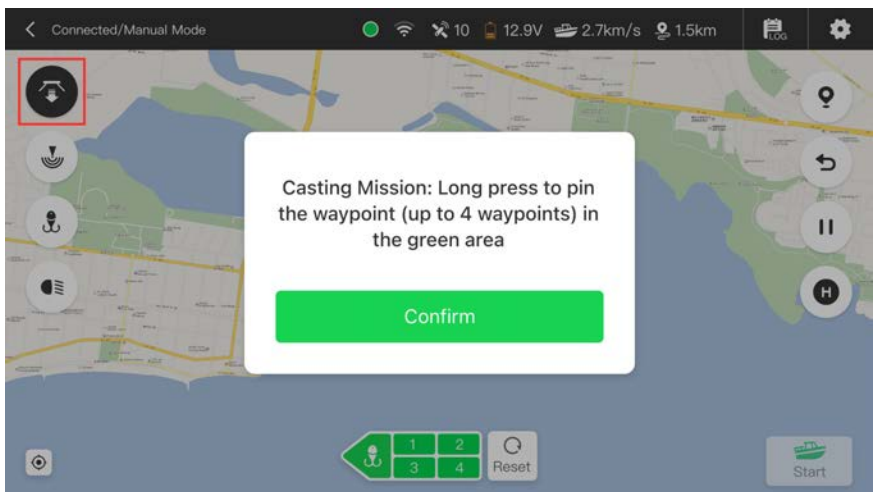
8.5. Set a Mission Plan for Automatic Casting

- 1) When CatchX has been successfully connected with your mobile phone, the system will automatically generate the default home point (i.e. the current position of CatchX).

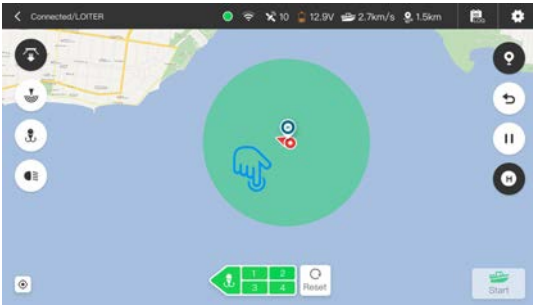
If you need to change the home point, just tap the “H” button (in red square below), and then select a spot on the map for the new home point, re-tap the “H” button to confirm.



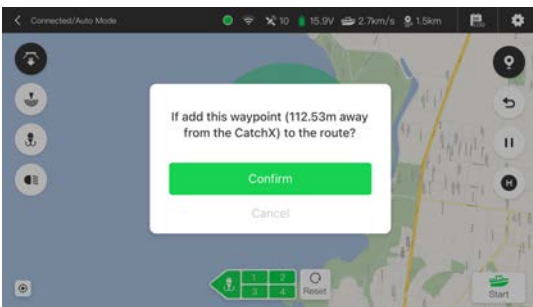
- 2) Tap the “Mission Management” button (in red square below) on the top of left side to start setting a route for your casting mission. Press the green button to confirm.



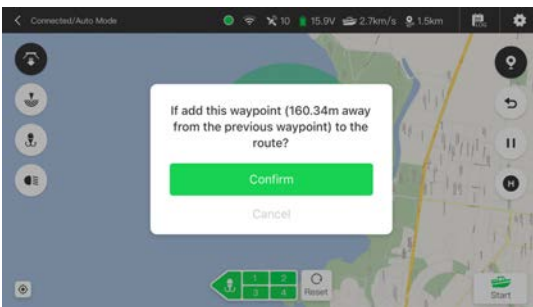
3) Select the Waypoints



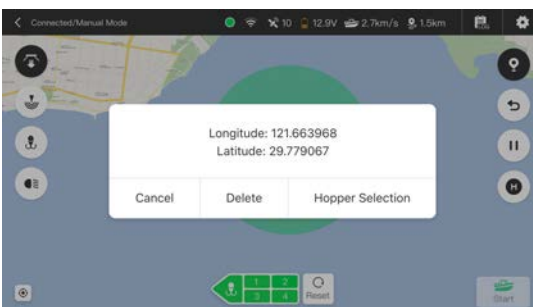
- a) Long press the point you want in the green circle until the prompt box pops up.



- b) Tap "Confirm".



- c) Repeat the process if you want to add more waypoints (but no more than 4 waypoints) .



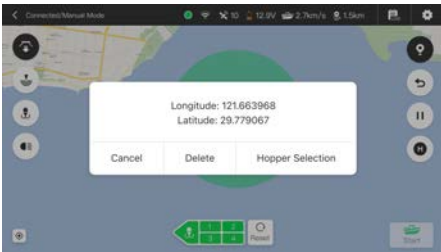
- d) If you want to delete the selected waypoint, tap it and then tap "Delete" in the prompt box that follows.

4) Select the Hoppers

There are two ways to select hoppers, which directly decides the mode of the mission: *fully automatic* and *half automatic*.

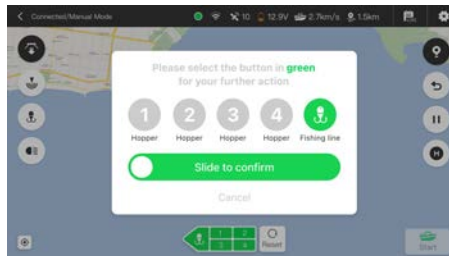
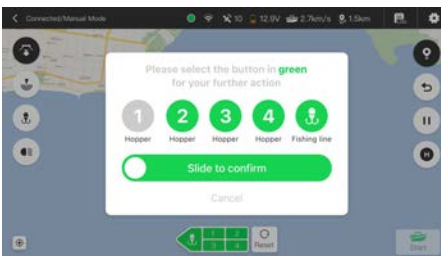
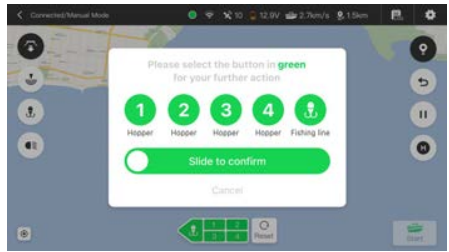
Fully Automatic

- ✓ Before performing the mission, tap the selected waypoints and tap “Hopper Selection” to confirm which hopper to be released on which waypoint.



Half Automatic

- ✓ If you start a task without selecting hoppers before the CatchX begins to sail, you need to confirm which hopper to be released every time CatchX reaches a waypoint.



5) Perform the Mission



a) Tap the “Start” on the right bottom corner.

b) Slide to start.

NOTE: The CatchX will return to the home point automatically after the mission is completed.

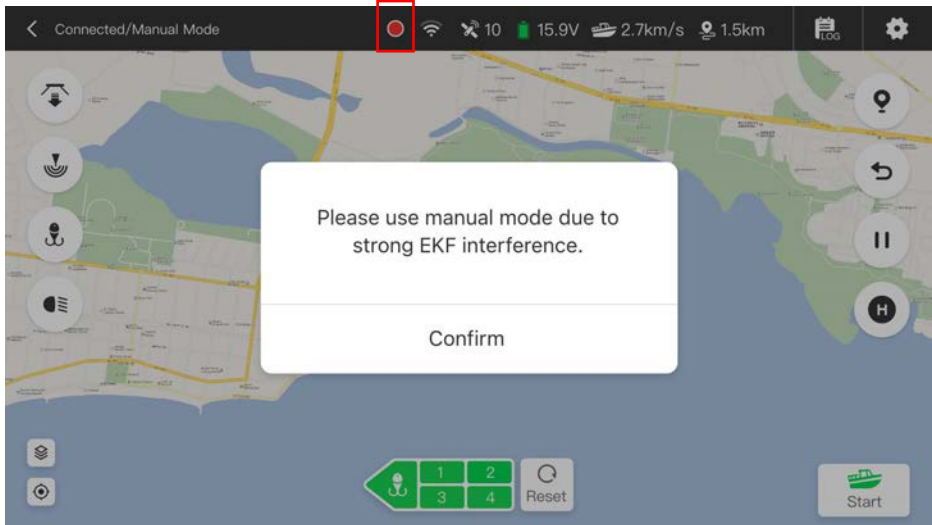
6) Release the Hook



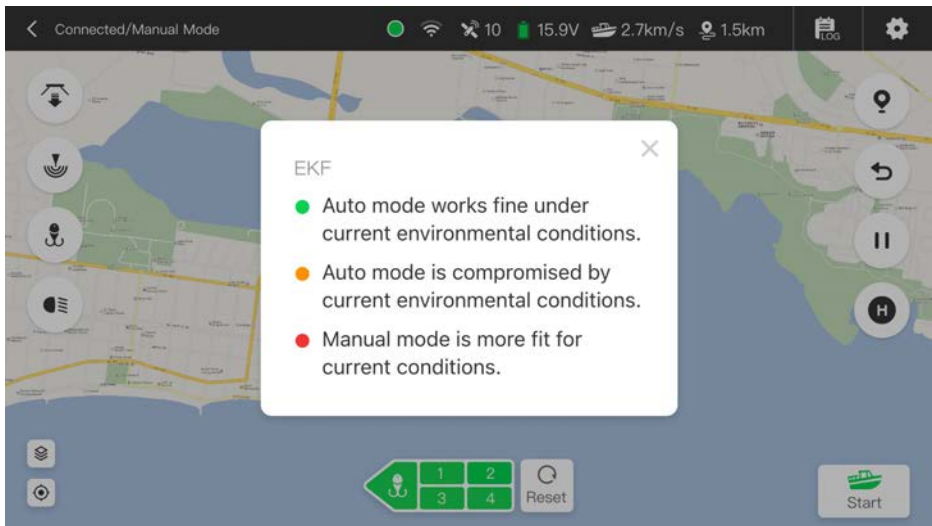
a) When the CatchX arrives the point where you want to release the hook, tap the third button on the left side. ***You can also select the point to release the hook when selecting the hoppers before the mission starts.***

b) Slide to cast.

8.6. EKF



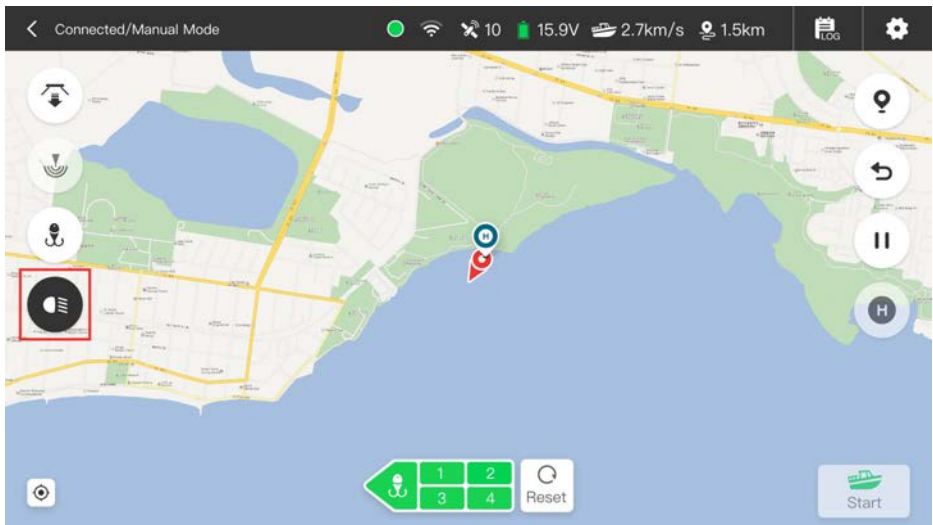
Note: When the indicator light (shown in red square) turns red, it means the boat is suffering strong EKF interference, you will be recommended to use manual mode instead.



8.7. Turn On/Off the Lights by APP

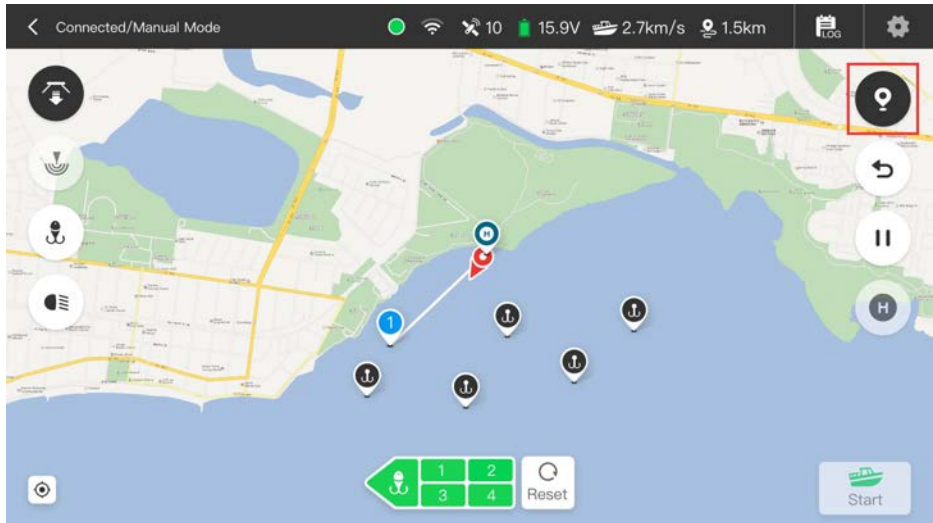
Tap the fourth button on the left side (in red square) to turn on/off both the head and tail LED light belts.

When the button is dark, the light belts have been turned on; if in white, they are off.



8.8. Historical Spots

The system will keep the record of all the historical spots that you have stored before; press the button in red square and will show your historical spots around the area as below:



Notice CatchX bait boat only has a WiFi hotspot on its remote control. First, the app interacts with the remote control through WiFi connection (including obtaining the status information of the boat and sending task instructions). Then the remote control takes control of the boat through the wireless data transmission module. The boat itself does not contain a WiFi hotspot. Users can not skip the remote control and use the app to directly control the boat.

9. Tips

9.1. Update

Update for the APP: Please go to the proper and relevant app store to update the Rippton APP from time to time according to the system notification.


9.2. How to use the remote control to take over the control from the APP

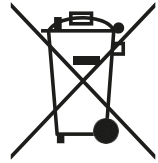
When the APP controls the CatchX bait boat to perform tasks, it will display “A” (standing for automatic mode) on the top bar of the remote control screen. Pushing the joystick upwards or backwards for 2-3 seconds will change the current mode to manual mode (“M” appears on the screen instead). This means that the remote control has taken over the control successfully.

Notes

- Always turn the remote control on first before turning on the boat. To turn off, turn off the boat first and then the remote control. This will ensure that you are always in control of the boat.
- The remote control should be protected from water at all times.
- Store your boat and remote control in a warm, dry place when not in use, in order to prevent condensation build up.
- It is recommended that the bait boat be cleaned with a damp cloth after use.
- After use ensure all batteries are fully charged before you pack the boat away for the next trip.
- If the boat is not going to be used for some months recharge the batteries every 2-3 months.
- Please disconnect the boat antenna and remote control antenna after use to avoid breakage.
- Clean the bait boat with a slightly damp cloth. Do not use soap or solvent.
- Assign more baits into the front two hoppers than the rear two, to keep the boat's balance well.
- The distance between two spots you select should be over 5 meters.
- The actual spot the boat arrives at will probably have 1 meter deviation due to the water movements.
- Please release your baits loaded in the boat if the boat has sailed for 10minutes in order to prevent the baits get wet and extremely sticky.
- The range of the boat is dependent on weather and environmental conditions.

Environmentally friendly disposal

Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point  via private persons is for free. The owner of old appliances is responsible for bringing the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycling valuable raw materials and the safe treatment of toxic substances.



10. Support

10.1. Support

We are committed to providing you with the best possible products and services, but in the unfortunate circumstance that you have a complaint or our app has a bug which needs to be fixed, please get in touch with us by email: support@rippton.com

10.2. Tell us what you think...

11. Warranty

11.1. What the guarantee covers

Notice: Rippton reserves the right to amend and/or interpret all the contents provided in this manual.

We offer you a 12-month guarantee from the date of purchase.

The guarantee covers any defects arising from the drive unit and the electrical and electronic parts of the boat, faulty material or workmanship.

It does not cover batteries, damage arising from improper use, breakage, or normal wear of the boat or associated equipment.

The guarantee is invalidated if repairs or modifications are undertaken by unauthorized persons.

The guarantee period for the rechargeable battery and the rechargeable LI-ION batteries is 6 months from the date of purchase.

11.2. Warranty Form

Please complete the form to register your CatchX Warranty.

NAME:

ADDRESS:

POST CODE:

TELEPHONE NUMBER:

Email ADDRESS:

PURCHASED DATE:

ORDER NUMBER:

SERIAL NUMBER:

You also can send the form to us via Email at support@rippton.com

CE RoHS

CatchX Smart Bait Boat

FCC Caution

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Remote Control of CatchX Smart Bait Boat

FCC Caution: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Max.SAR(1g): Body:1.130 W/kg