



# Smart Wave Maker

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## USER'S MANUAL

### **WARNING:**

1. To ensure performance, do not let the pump work dry.
2. Keep the controller at a dry place. Avoid water splashes on it.
3. Be careful when assembling the magnet base. Move parallel the magnet base parallel the pad close to the outside wall of fish tank to prevent breaking the fish tank.
4. Do not disassemble the controller or adaptor without professional guidance.

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MCP、MLW、MOW SERIES

## **I. Introduction**

Jebao wave makers are well designed as a good equipment to stimulate the natural sea environment by high technology, which offers a natural environment for different sea livings in the fish tank or in the pond. Before assembling and operating correctly, please read the manual carefully.

## **II. Function Feature:**

- Unique control system allows to wave of different types and multiple function, which can achieve different wave patterns as desired.
- Wireless controllers allow synchronize operation among wave makers. One main controller can remote control the slave-controllers.
- Low voltage DC electronic pump with variable

frequency provides a safe environment for user.

- Easy operation to achieve the multiple sea moving.
- Flow direction can be adjusted by different modes needed.
- Hotspot(AP direct control function), which allows short distance wireless control by mobile phone without Wi-Fi network
- Large range of voltage input (AC100~240V 50/60Hz) allows to operate in various power system and prevent the impact on waves.

### **III. Assembly Notice**

1. Suitable for different size of fish tank, the tank thickness of less than 15mm would be better.
2. Accessories: include wireless controller, adaptor, power cable, pipe connector, user's manual.
3. Pump assemble: Take away the magnet at the back of the pump basket, locate the pump in the center of the fish tank inside and suck it closely by the rubber pad

and shift the magnet slant to the same position on the outside wall. Take care of your fingers to be clamped because of the strong magnetism of magnet.

4. Controller install, there is a hole to hang on the controller at any place in convenient.
5. Connect the pump with the 3-pin connection wire. Connect the adaptor plug with the controller and connect AC wire adaptor.

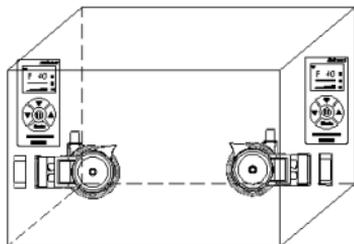


Fig.1

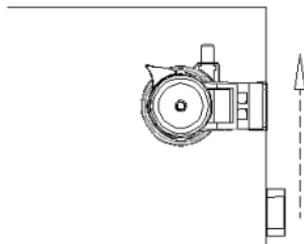


Fig.2

## IV. Operation and Function

### A. Button and Knob

**II**: Press short to enter feeding mode, and press long to shut down.

**Mode**: Short press to select each function mode. Long press to enter frequency adjustment mode.

: Press the button to set Master control, Slave control or operate individually. Long press to select distribution mode.

/: After entering the frequency adjustment mode, the period can be adjusted; Adjust the power; Press and hold the double keys at the same time to exit the timing mode; Press and hold the double key at the same time to enter the screen saver brightness level mode. "" adjusts the normal brightness. "" adjusts the brightness of the screen saver.

### **B. Function Description**

Wireless controller is defined to allow operation without the wire among the wave makers.

**Master Control:** Press “Wi-Fi” once and enter to the Master control model, the screen shows "M". Master controller can operate all the function.

**Slave Control:** Press “Wi-Fi” until the screen shows "S" and enter into Slave mode, where the controller function is invalid except adjusting flow rate by the button.

Among two or more wave makers in a group, set one controller as the Master control and the other as Slave control. All the pumps will keep the same performance through adjusting the Master controller.

## **C. Introduction of each mode**

### **W1: Classic Wave Mode**

Remoting the button is necessary when operate this mode to adjust the wave patterns among one or more pumps at the same time. As the volume of water in tank is different from the tank capacity, wave period need to be adjusted by switching the button. The wave is the biggest when wave length turn to be same as the length of the tank.

### **W2: Sine Wave Mode**

One or more pumps can operate at the same time in this mode. The flow rate various between 30%-100% and the regulation looks like a sine curve.

### **Else: Random Wave Mode**

One or more pumps can operate at the same time. It is a random mode of the pump power changed in a random data all the time without regulation.

### **H: Constant Wave Mode**

One or more pumps can operate at the same time. In constant flow. wave period can be adjusted by “ ▼/▲ ”.

### **C: Shift to flow Mode**

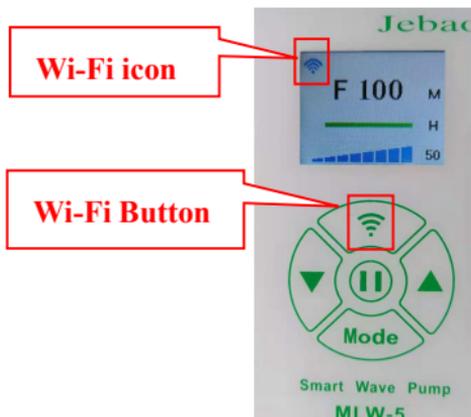
Two pumps are needed to be operated at the same time, when they

shift wave and flow in alternately. P1 work, P2 stop; P2 work, P1 stop alternately.

### **Feed Mode Function**

Short press the “ **II** ” button, the pump stops working for 10 minutes and allow the fish to eat for 10 min. the pump recover work automatically after 10 min. If need to return back to work during feeding, just short press the “ **II** ” button return back to work .

## V. Wi-Fi Icon and Wi-Fi Button Instruction



### ●Explanation of Wi-Fi Icon

- A. Wi-Fi icon flashes while the Pump is on smart configuration mode.
- B. Wi-Fi with AP icon flashing while the Pump is on AP configuration mode and AP direct connection mode.
- C. Wi-Fi icons are often displayed when the Pump is connected to the cloud server.
- D. Wi-Fi icon is not displayed when the Pump is disconnected to the cloud server.

● **Wi-Fi Button Instruction**

A. Turn on the power supply or press the Wi-Fi key for about 5 seconds to enter the intelligent distribution network state.

B. Long press the Wi-Fi button for about 5 seconds, and the Wi-Fi with AP icon flashes to enter into the AP configuration mode and AP direct connection mode.

C. Wi-Fi icon is often displayed after connection.

## **VI. APP Download and Instruction**

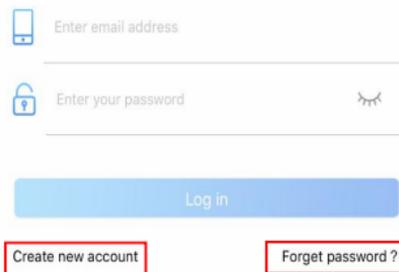
### **1. Download**

The APP name “Jebao Aqua”, is available in App Store for Apple users and Google Play for Android system users. User can search “Jebao Aqua” in either APP Store or Google Play to download the application. Alternately user can scan the below barcode on the package or user’s manual to download the application. (Note: Scan function in certain countries or areas may not be able to read the barcode properly.)



## 2. User registration, login and password reset

### 2.1 Account registration



- ① Open Jebao Aqua App and tap *Create new account*;
- ② Fill in the information as required and tap *Create account*;
- ③ After registration, return to the login page and put the account and password to log in.

Note: please use Email to register, Phone number registration is valid for mainland China only.

## 2.2 Reset Password

< Forget Password

Enter your email and we'll send you a link to reset your password

Enter email address

Send link

Reset password by phone number

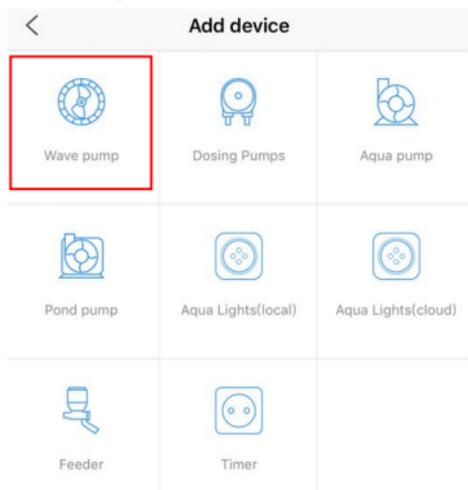
Tap “*Forget Password*” on the login page. Input your email address and tap *Send link*. Check your email and follow the instructions to reset your password.

## VII. App Instructions

### 1. Add new pump

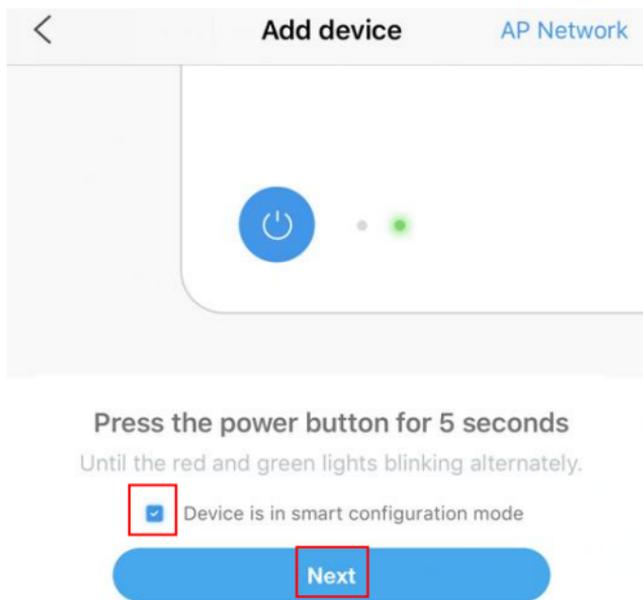


Tap *Add Now* or “+” icon on the upper right side to add your devices, tap “*Wave Pump*” icon .



Configuration mode: Make sure your phone is connected to 2.4G band Wi-Fi before configuration. There are two types of configuration modes, Smart configuration and AP configuration modes. Choose one mode to link your device.

①**Smart Configuration:** After the device is powered on, the Wi-Fi sign on the upper left of the controller screen flashes, and the device enters the intelligent distribution network mode.

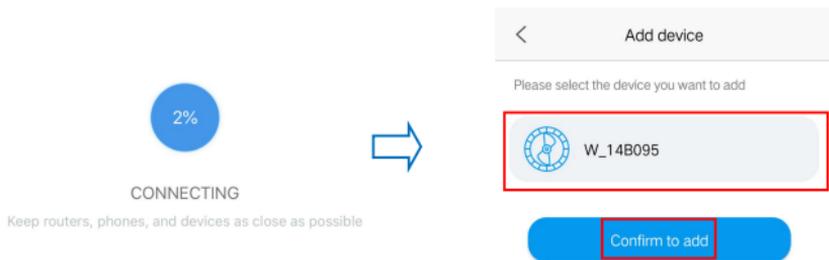


Check the sentence “*Device is in smart configuration mode*” and

tap “Next” to start smart configuration.

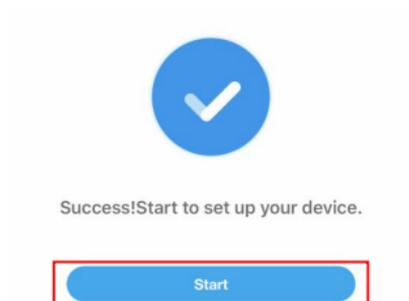


Follow the instructions. Input the correct Wi-Fi password and tap “Next”



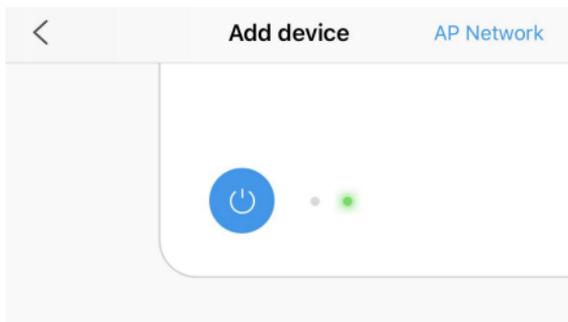
Make sure your device, phone, and router are as close as possible

during the configuration progress. The page will display all the devices. Choose the device you want to add and tap on the device name, then tap *Confirm to add*.

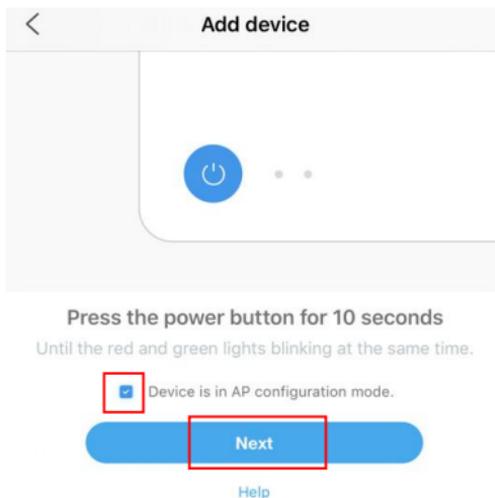


Tap “*Start*” to start using your device.

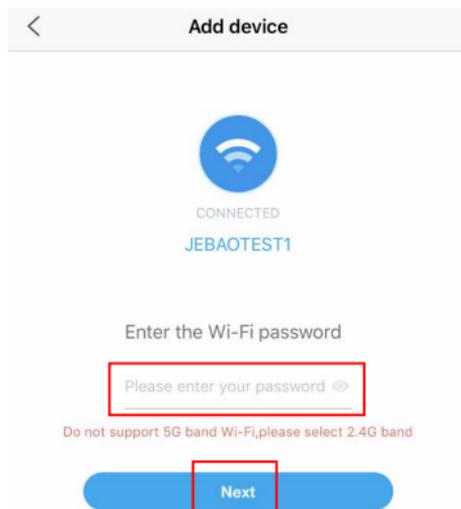
② **AP Configuration:** Press Wi-Fi button for about 5 seconds then Wi-Fi with AP logo flashes at the top left of the screen, The Device come into the AP configuration mode.



Tap “*AP Network*” in the upper right corner of the Add device page to enter into AP configuration.



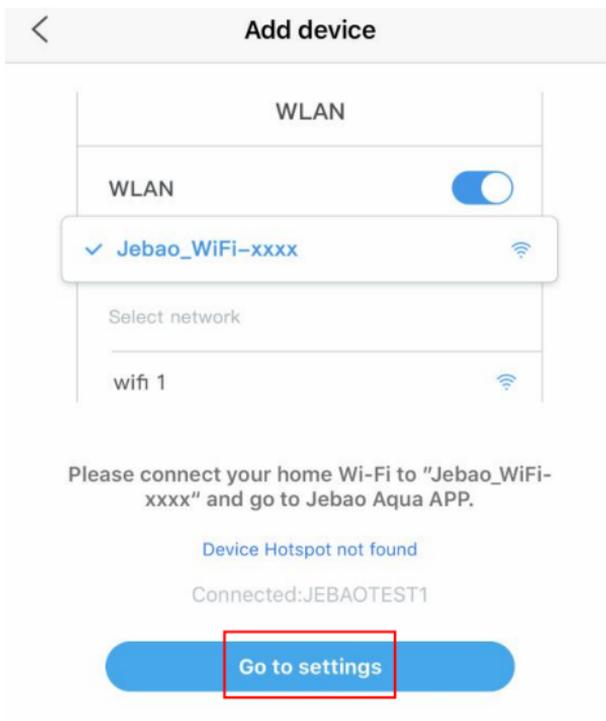
Check the sentence “*Device is in AP configuration mode*” and tap “*Next*”



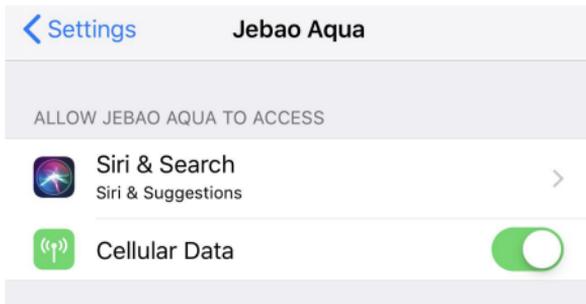
Input the Wi-Fi password and tap *Next*.

**Note:** Due to different operating system, IOS and Android will be different in operation in the following details.

**A. IOS System:** After entering the Wi-Fi password, you need to switch the Wi-Fi of the phone to "Jebao\_WiFi-xxxx", as below.



Tap "Go to settings"



Tap “Settings” in the upper left corner to enter the mobile phone settings page.



Go to Settings > Wi-Fi and connect to “Jebao\_WiFi-xxxx” with password 123456789.

Enter the password for "Jebao\_WiFi-261f"

Cancel

Enter Password

Join

Password 123456789

You can also access this Wi-Fi network by bringing your iPhone near any iPhone, iPad, or Mac which has connected to this network and has you in their contacts.

After successful connection, tap *Jebao Aqua* on the upper left corner to return to the APP.



The configuration starts automatically. Tap *Start* to control the device after the device has been added successfully.



Success! Start to set up your device.

Start

**B. Android:** After input the Wi-Fi password, need to manually switch the Wi-Fi connection "Jebao\_WiFi-xxxx". The specific operation is as follows.

Connect to a wireless network  
Please connect to the wireless network manually <Jebao\_WiFi-4348>

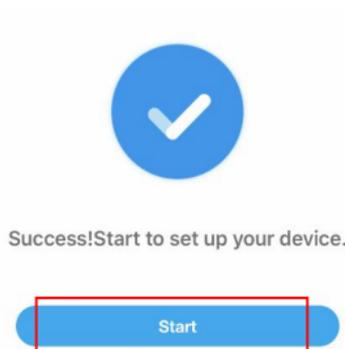
Confirm



Click "Confirm", Enter the mobile phone Wi-Fi setting page.



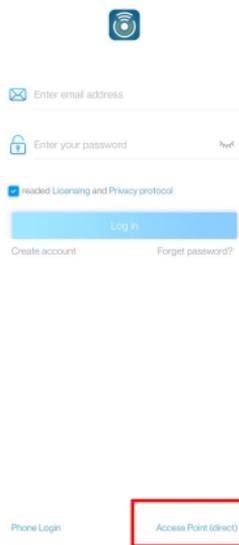
On the Wi-Fi Settings screen, switch the Wi-Fi of the mobile phone to “Jebao\_WiFi-xxxx”, and the password is **123456789**. After the connection is successful, wait for a moment (the mobile phone automatically connects back to the Wi-Fi of the router), and the software displays a message indicating that the addition is successful. Tap “*Start*” to control the device.



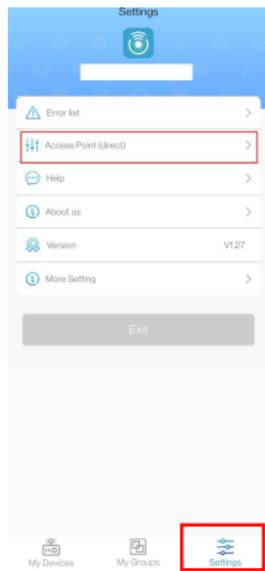
### ③ Hotspot(AP direct connection)

Hold down the device's Wi-Fi button for about 10 seconds until the Wi-Fi with AP icon blinks at the tap left of the screen. The device enters into the mobile phone direct connection state.

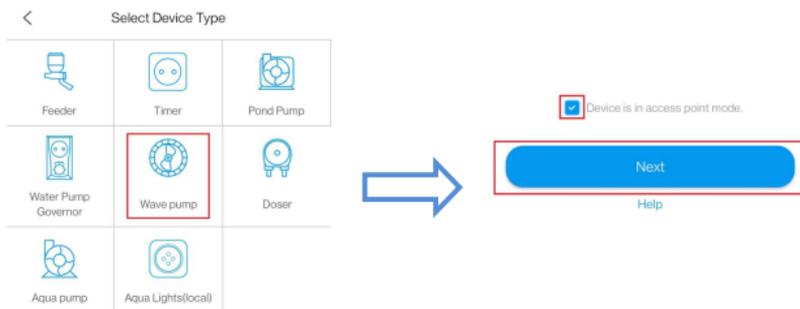
1. In the APP login interface, tap the *Access Point (direct)* connection at the bottom right or tap the *login* to enter the main interface and select the *Access Point (direct)* connection in *Settings*.



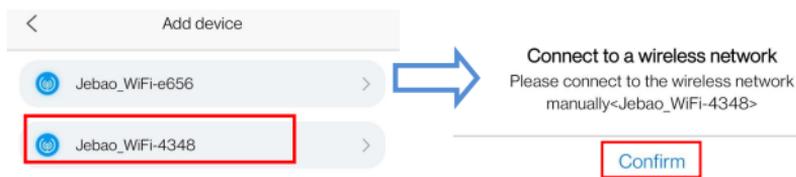
OR



2. Select the device type, check the confirmed device to enter AP hotspot mode and tap “Next”.



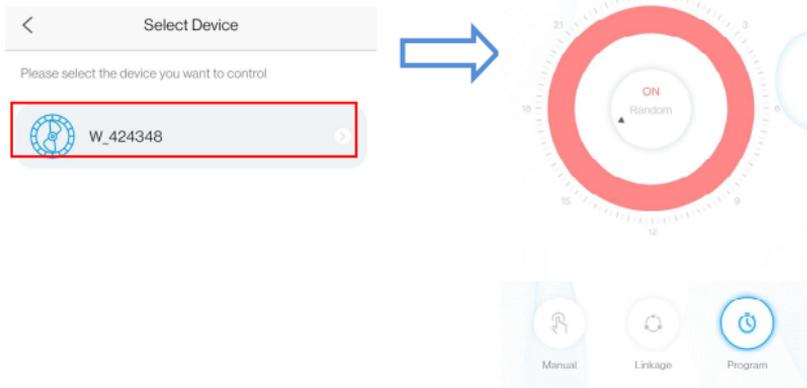
3. Select the Wi-Fi name of the device, tap *Confirm* .Jump to the phone Wi-Fi setting interface.



4. Select the hotspot "Jebao\_WiFi-xxxx" issued by the device (the name is the same as the device name), enter the password 123456789 and tap Connection. Manually return to APP after successful connection.



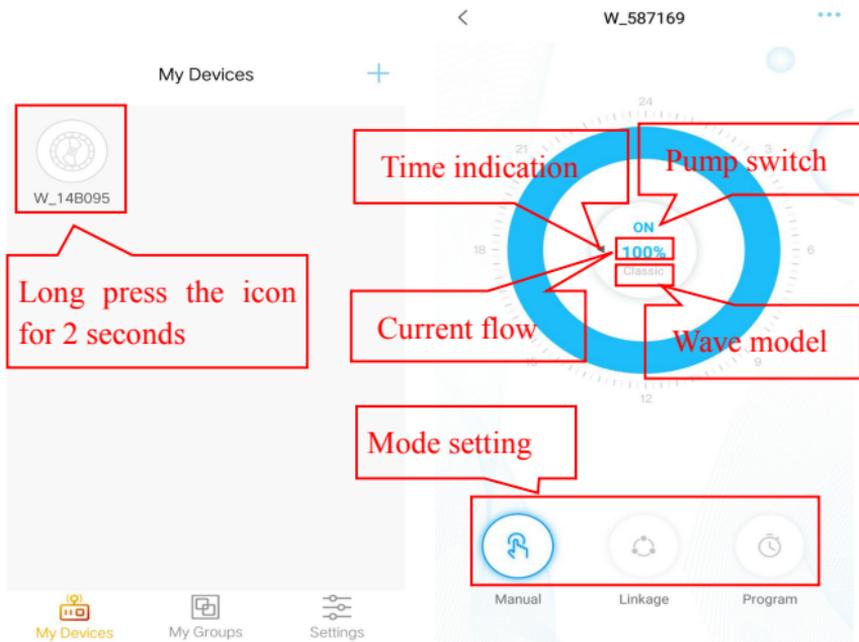
5. Wait for the device to connect, and top the device to enter the control interface.



### Notice:

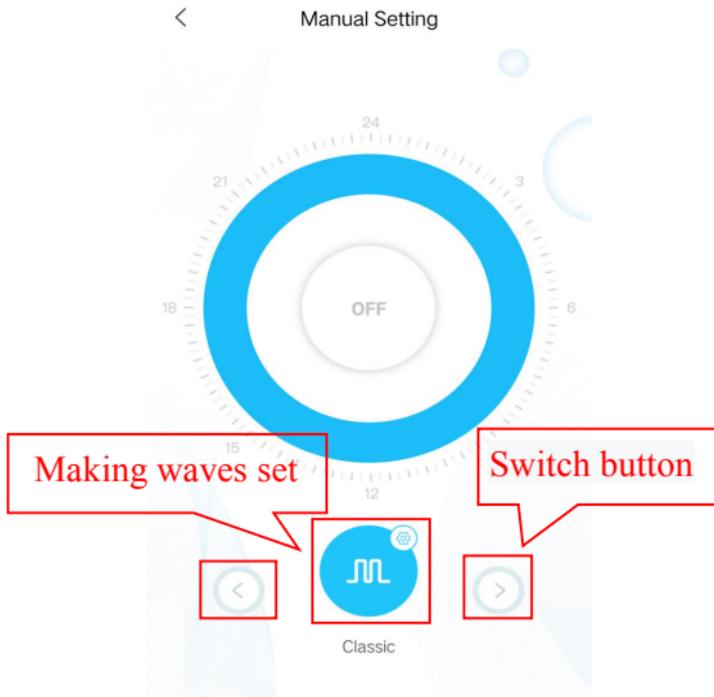
1. You may be asked to restart configuration process all over again if the Wi-Fi password input is incorrect.
2. Make sure the device, mobile phone and router are placed as close as possible.
3. AP direct connection is only suitable for close control of the device in a non-Wi-Fi environment.(Manual calibration time is required when the equipment is directly connected to AP after delivery. See *VII.4 Pump Management* for detail.)

### 3. Pump Control



In my device interface, long press the device icon for 2 seconds to enter the device control interface.

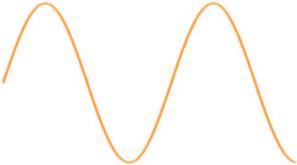
**Manual mode settings:** In the device control interface, long press the bottom manual icon for 2 seconds to enter the manual mode setting.



Enter the manual setting interface and switch the wave-making mode by clicking the “<” and “>” button at the bottom of the page. Click the middle circle wave-making mode icon to set the specific flow value and frequency of wave-making.

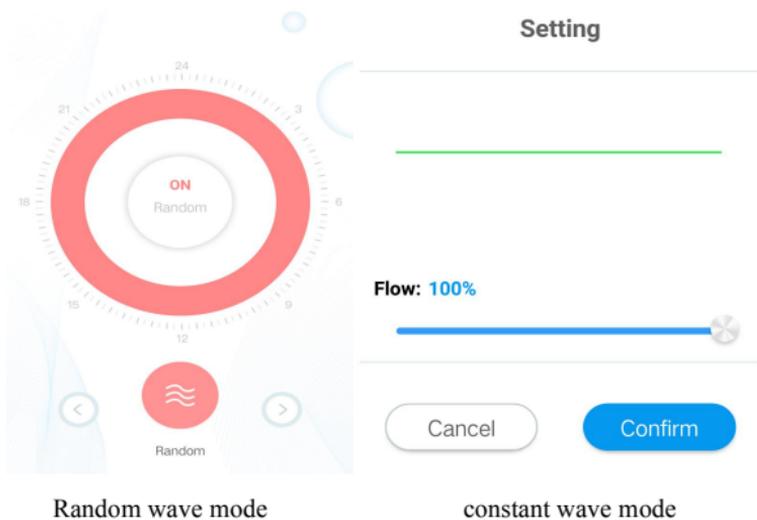
**Classic mode:** Press or drag the bar to adjust the flow and the frequency. The minimum flow is 30%. The minimum frequency is 5%. Pulse or circulation can be chosen.

**Sine Wave Mode:** Press or drag the bar to adjust the flow and the frequency. The minimum flow is 30%. The minimum frequency is 5%.

Setting	Setting
	
Flow: 100%	Flow: 100%
	
Frequency: 95	Frequency: 95
	
Pulse	Cross-flow
Cancel	Confirm
Classic mode	Sine wave mode

**Random Wave Mode:** Random wave data generated by the system randomly. Switch to random wave making to use.

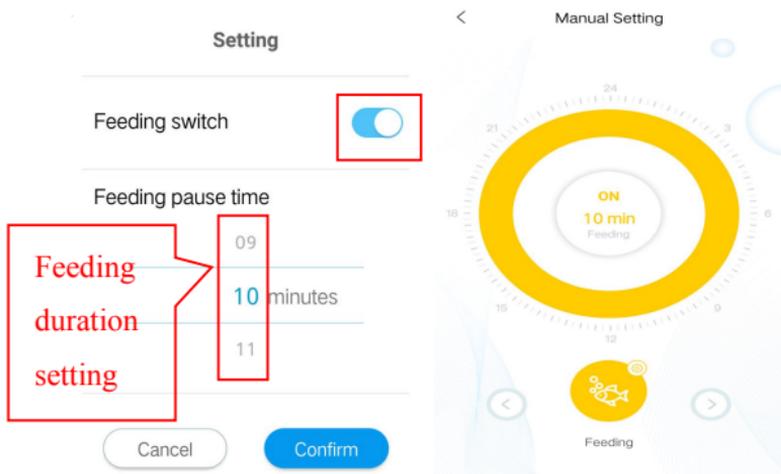
**Constant Wave Mode:** Press or drag the bar to adjust the flow. The minimum flow is 30%.



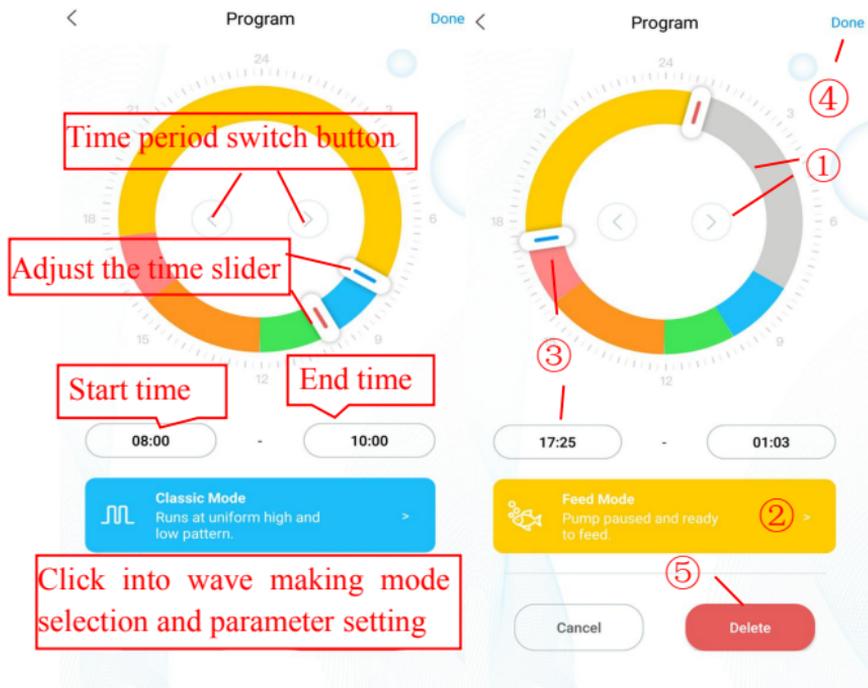
Random wave mode

constant wave mode

**Feed mode :** The feeding switch should be turned on. After setting the feeding duration time, click "confirm". During the feeding period, the pump will stop working.



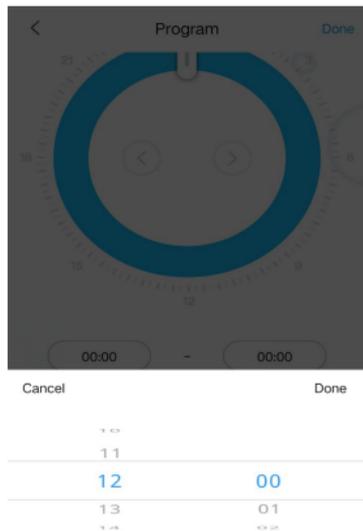
**Timer mode:** In the device control interface, press the *Timer* icon of mode setting for 2 seconds to enter the Timer setting.



- ① Double-click the blank area of the ring to add the plan time period or use the switch button to switch to the blank area of the ring to add the plan time automatically.
- ② Choose the plan period of work mode.
- ③ Drag the slider to adjust start and end time or modify start and end time directly.
- ④ Click finish to save plan setting.
- ⑤ Clicking delete will delete the current scheduled period.



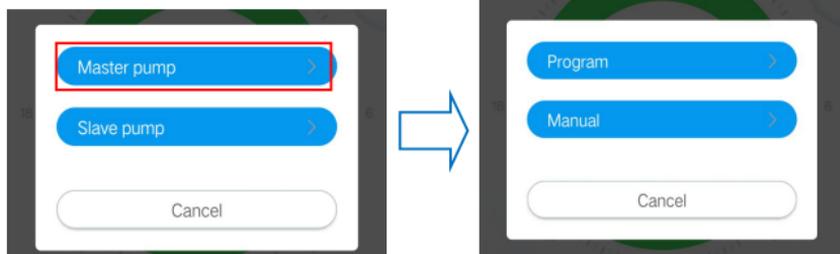
Mode selection and setting



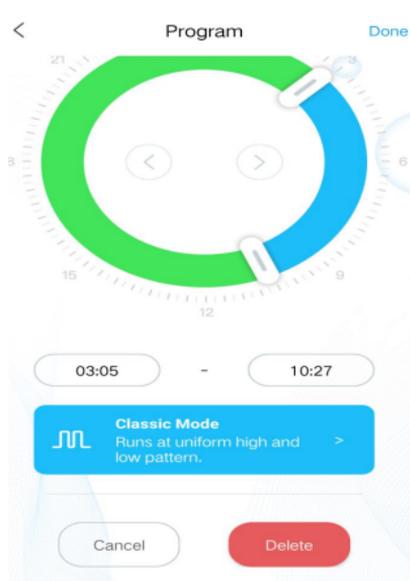
Time period setting

**Linkage mode setting :** In the device control interface, click "Linkage" button to enter linkage settings. In the linkage mode, two or more wave pumps are required in a group. One pump is set as the main Mode control and the other slave control. When set the function, only adjust the main control function, the slave control function is determined by the main control. The main control has timing and manual functions, and the settings are the same as timing and manual settings.

## Main control function Settings:

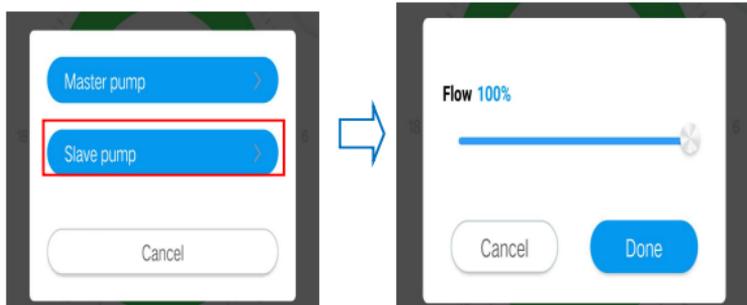


Manual setting page



Timing setting page

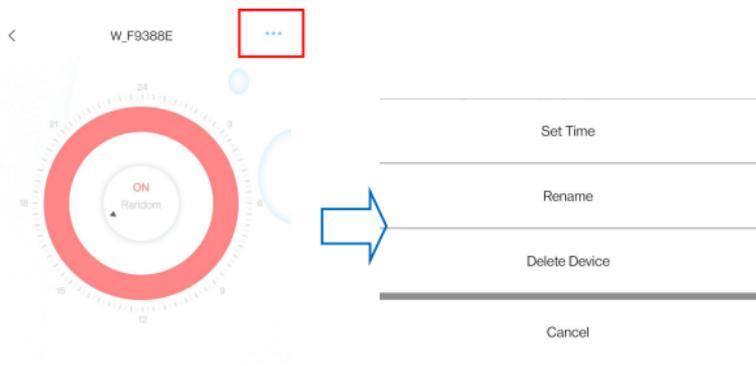
## Slave control function Settings:



Slave control can only set the flow and the speed, the function is determined by the main control.

## 4. Pump Management

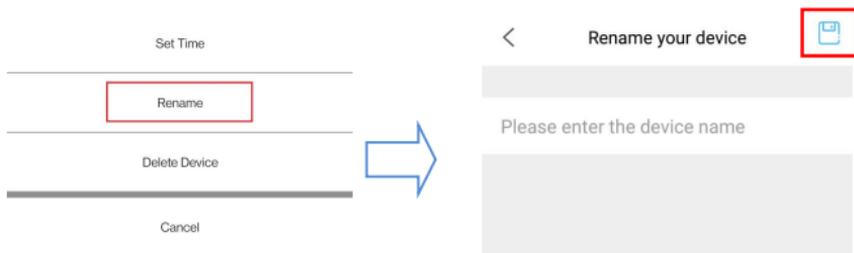
On the device's main page, tap  on upper right-hand side to device management page. User can calibration time, rename, delete device. To add back the device, user need to start configuration again.



1. The factory time of the equipment may not be accurate, so the first time to use the AP direct connection mode of the mobile phone needs to set the calibration time (top the set time).



2. Users can also change the name of the pump to facilitate management.



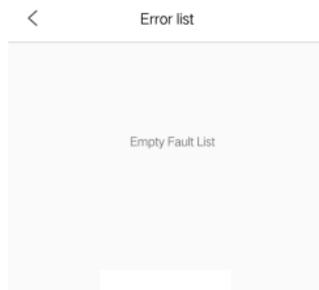
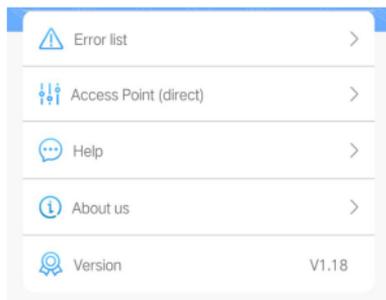
**Rename**

3. You can also delete the current pump, but when you want to add another pump, you should reconfigure the network to add the pump. Reset the Wi-Fi module if necessary.



Delete Device

## 5. Trouble shooting tips



When the Wi-Fi module doesn't communicate with the driver, the connection failure will be indicated.

### **LED Error code and APP Error description:**

When the controller work abnormal, the controller will show the Error code and warning flashing, when enter the APP will pop-up the mention box. the code explanation as below:

**APP mention and error code:**

**Er01:** Controller over current; Abnormal Working current; Check if the pump short of voltage or the controller broken.

**Er02:** Controller over heat; Controller overheating; Check whether the controller exposed to the sunshine or in high temperature environment.

**Er04:** The pump was blocked; The impeller stops running, clean the pump and impeller to ensure the impeller is clean and work.

**Er05:** Controller overvoltage; Abnormal Working voltage; Check the input supplying voltage.

## **VIII. Warning**

1. To ensure the product performance, do not run without water.
2. Select a dry place to locate the controller to prevent water splashed on it.
3. Be careful when assemble the magnet, better to shift parallel the pad close to the outside wall of fish tank to prevent breaking the fish tank.
4. Don't disassemble the controller and adaptor without professional guidance

## IX. Maintenance

1. Clean the controller regular to ensure good performance.
2. Clean the controller surface with dry cloth if there is any water to prevent water inflow into controller.
3. Remove the waste in the pump by rotating the basket in anti clockwise to open and lock in clockwise direction.
4. Use soft cloth to rub blade and clean the dirty in the pump.
5. This product is indoor use only, don't submerged in the water to cause unnecessary loss.



### **DISPOSAL:**

Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary. This product must not be disposed together with the domestic waste. This product has to be disposed at an authorized place for recycling of electrical and electronic appliances. By collecting and recycling waste, you help save natural resources, and make sure the product is disposed in an environmental friendly and healthy way.

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