

# Petnanny

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**ECO Slim Wave maker**

## Instructions

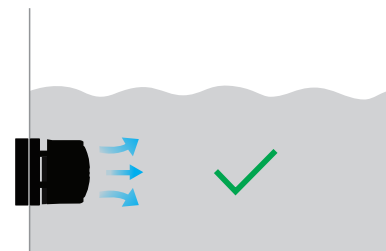
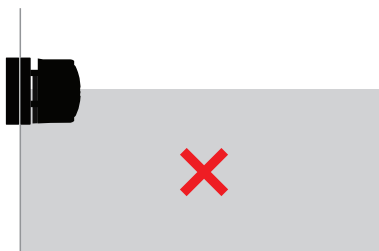
Please read this manual carefully before using and follow strictly in accordance with the manual

## Instruction

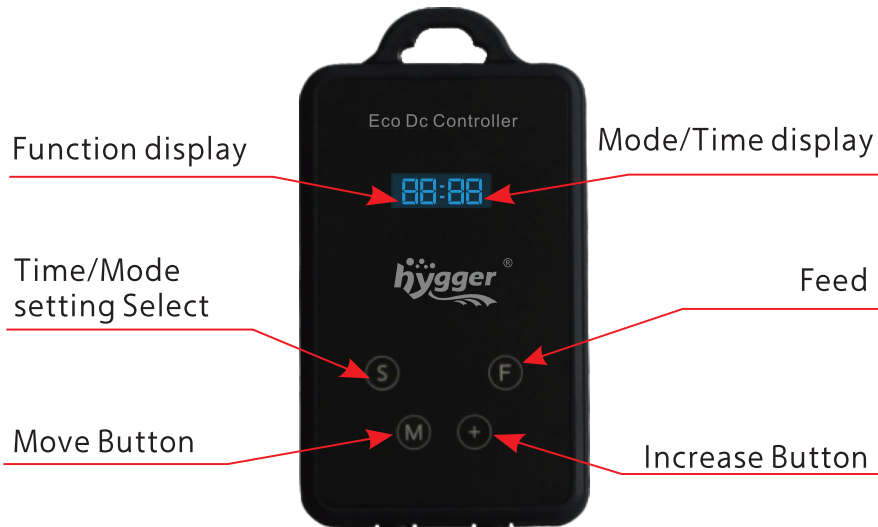
This wave maker ocean according to five time range of Dawn, Sunrise, Daylight, Sunset and Moonlight. Each time range the wave mode, intensity and wave frequency adjustable.

## Installation

Install the wave maker at the position 15-20cm below water level. Place the magnetic mount outside of tank, The wave maker can be up and down of any direction according to the actual situation.



# Controller Panel



## • LED Display:

8 LED lights can display the information of wave-making mode, speed, power, frequency.

When the first five lights on it means the pump work at 40% of the max power.

When six lights on it means the pump work at 60% intensity.

When seven lights on it means the pump work at 80% intensity.

When eight lights on it means the pump work at 100% intensity.

In classic wave-making mode, if power is set at 40%, the first five lights will be lighted one by one per wave frequency accordingly and if set at 60%, the first six lights will be lighted one by one per wave frequency accordingly.

In constant stream mode, when power is set to 80%, the first seven lights are turned on in turn during power-rising stage (all six lights are on), and the lights are turned off in turn when the wave-making flow is weakened.

Random mode is actually the random working of the three modes (Classic Wave, Nutrition Transmission Wave, Constant Stream). So the lights status is per the actual mode status.

### • Digital tube Display:

88:88 shows the time or wave mode, select by the key of “S” 。 When the middle two potints “:” flashing it shows the time, and then touch the key “S” , it will shows the wave mode information,the first number of the Digital tube shows the time range,the second shows power intensity, the third shows wave mode, the last one shows wave frequency.

### • Button Definition:

S Time/Wave Mode setting select button

M Digital tube number select

+ Increase button

F Feed button

## Function Setting

### 1.Time set:

Press the **S** button to enter time set mode **00:00**

Press the **M** button, the first digital display starts to flash

Press the **M** button one time,the digital display one bit to the right **00:00** → **00:00**

Press the **+** button to calibrate the flashing digital display **12:34**

Wait a few seconds after the setting is completed until the digital display stops flashing to complete the save.

### 2.Tidal Time Setting:

The digital display of the controller with 4 digits,the first digit is modified to switch to tide period. The factory–set tide table with 5 periods:

05:30–07:30	Dawn	<b>1312</b>
07:30–09:30	Sunrise	<b>2413</b>
09:30–14:00	Day	<b>3413</b>
14:00–16:30	Sunset	<b>4425</b>
16:30–05:30	Night	<b>5138</b>

Press the **S** button to enter the wave setting mode, such as display **5138**

Press the **M** button once, the first digit starts to flash **5138**

Press the **+** button, modify the first digit can switch different time periods and modify the corresponding power and wave making mode and wave frequency.

### 3. Power Setting:

Press the **S** button to enter wave setting mode, such as display **5138**

Press the **M** button twice to switch to the second digit display start flashing **5138**

Press the **+** button to modify the power of the current tidal period, the current power setting is divided into 4 levels.

**8188** Power set at 40%

**8288** Power set at 60%

**8388** Power set at 80%

**8488** Power set at 100%

Wait a few seconds after the setting is completed until the digital display stops flashing to complete the save.

### 4. Wave Mode Setting:

Press the **S** button to enter wave setting mode, such as display **5138**

Press the **M** button three times to switch to the third digit display start flashing **5138**

Press the **+** button to modify to classic wave or nutrient transfer or constant stream or random modes.

**8818** Classic Wave



**8828** Nutrituion Transfer Wave



**8838** Constant Stream



**8848** Random Mode



Note: The random mode is a combination of the four modes with random rapid changes and all power and frequency are also random outputs. so when this mode enabled, the second and fourth digit display cannot be adjusted.

#### 5. Wave frequency setting:

Press the **S** to switch to wave setting mode, such as display **5138**

Press the **M** button 4 times, switch to the fourth digital display start flashing **5138**

Press the **+** button to calibrate the currently flashing digital display number between 1 to 8.

**888 |** The Fastest Frequency

⋮

**888 8** The Slowest Frequency

Wait a few seconds after the setting is completed until the digital display stops flashing to complete the save.

#### 6. Feeding Mode Setting:

Press the **F** button to pause action in any mode of the pump and display the content **F-10**

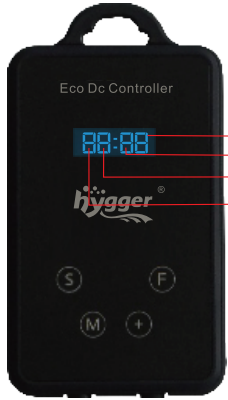
At this point, the 10-minute countdown will begin, it will return to the original working state after the end.

If need manually recovery, press the **F** button again.

#### Common Faults:

<b>ERR1</b>	Software Overcurrent Protection
<b>ERR2</b>	Hardware Overcurrent Protection
<b>ERR4</b>	Undervoltage Protection
<b>ERR5</b>	Overvoltage Protection
<b>ERR6</b>	Phase Loss Protection
<b>ERR7</b>	Locked-rotor protection/Dry running protection
<b>ERR8</b>	Startup Failed

• Digital tube No defintion:



	Time range	Intensity	Wave Mode	Frequency
1:	05:30~07:30 (Dawn):	1:40%	1: Classic waves	1: Fast
2:	07:30~09:00 (Sunrise):	2:60%	2: Nutrition transmission wave	2:
3:	09:00~14:00 (Daylight):	3:80%	3: Constant stream	3:
4:	14:00~16:30 (Sunset):	4:100%	4: Random Mode	4:
5:	16:30~05:30 (Night):			5:

• Factory setting :

05:30~07:30 (Dawn):	1	4	2	5	
07:30~09:00 (Sunrise):	2	4	2	8	
09:00~14:00 (Daylight):	3	3	3	8	
14:00~16:30 (Sunset):	4	3	2	8	
16:30~05:30 (Night):	5	4	2	5	
					6:
					7:
					8: Lowest

Note: When setting the wave maker some issues need to know:

1. When adjust to mode 3 (The third digital tube shows 3) Constant stream mode, the last digital tube can not be adjusted . The default is 8. Because the Constant stream mode only need to adjust the power, for example, 5138,5238,5338,5438.
2. When adjust to mode 4 (The third digital tube shows 4)Random mode.The first and digital tube can not be adjusted, because the Random mode does not need to set intensity and wave frequency. Such as 1040,2040,3040,4040,5040.
3. When the wave maker run reversal it means you need to clean the impeller and restart the wave maker.



## Parameter

Model	HG-951-14W	HG-951-20W
Flow rate	1500GPH (6000L/H)	2600GPH (10000L/H)
Tank	<18 inch (<45cm)	<23 inch (<60cm)
Tank thick	<0.5 inch (<1.2cm)	<0.6 inch (<1.5cm)
Max power	14W	20W
Min power	3W	6W
Voltage	DC12V	DC24V
Size	1.89X1.89X1.93 inch (4.8X4.8X4.9cm)	2.4X2.4X2.56 inch (6.1X6.1X6.5cm)

## Maintain

Clean the wave pump regularly to ensure its effective operation;

If there is water on the surface of the control box, please dry it with a dry cloth to prevent water from entering control box;

When cleaning the debris in pump body, firstly, remove the hook brackets on both sides of the pump base, then remove the intermediate disc and the impeller, wipe the impeller with a soft cloth, and clean pump body with water;

This product is suitable for indoor use. Don't immerse the controller box and adapter into water.

## Notice

Note: If the controller shows “err” means there are several cases:

- 1.The wave maker never immerse in water
- 2.The wave maker is not connected to the controller
- 3.The wave maker stuck,need to clean and reassemble it.
- 4.Dry run not allow In order to guarantee the product performance.
- 5.Keep the controller and adapter away from water and splash water .
- 6.To avoid damage please don't open the controller and adapter.

## 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.

## Warranty Card

**Please keep the warranty card, present at the time of repair.**

**Fellowing item are not covered by warranty:**

- Non standerd operation : Incorrect installation and placement, damage caused by transport.
- Damage caused by improper repair faults.
- Improper out door use.
- Malfunction caused by irresistible natural disasters.
- Failur caused by accidents of rated power (voltage and frequency ) 。

The interpretation of the above warranty terms belongs to our sales department.