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## Jebao ELW-10M

# Jebao ELW-10M Smart Wave Maker Circulation Pump User Manual

## 1. INTRODUCTION

Thank you for choosing the Jebao ELW-10M Smart Wave Maker Circulation Pump. This device is designed to create natural wave patterns and circulation in your aquarium, promoting a healthy environment for aquatic life. The ELW-10M features advanced SINE wave technology for quiet operation, Wi-Fi control via a smartphone app, and a 3D adjustable output direction. This manual provides essential information for the safe and efficient use of your wave maker.

### Key Features:

- Wi-Fi control (iOS and Android) and manual controller with LCD display.
- SINE wave technology for ultra-quiet and stable performance.
- 3D rotation angle for adjustable water flow direction.
- No exposed copper elements, safe for both marine and freshwater aquariums.
- Compact design with magnetic base for easy installation.

## 2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in product damage, injury, or electric shock.

- **Electrical Safety:** Always disconnect the power supply before performing any maintenance or installation. Ensure your hands are dry when handling the power adapter and controller. Do not operate if the power cord or plug is damaged.
- **Water Safety:** This device is designed for submersible use in aquariums. Ensure all electrical connections are kept dry. Do not operate the pump out of water.
- **Placement:** Position the pump securely using the magnetic base. Ensure it is not obstructed by decorations or substrate.
- **Children and Pets:** Keep the device and its components out of reach of children and pets.

- **Intended Use:** Use this product only for its intended purpose as an aquarium wave maker.

### 3. PACKAGE CONTENTS

Carefully unpack the box and ensure all items are present and in good condition. If any items are missing or damaged, please contact your retailer.

- Jebao ELW-10M Wave Maker Pump
- Smart Controller with LCD Display
- AC Power Adapter
- Magnetic Base



Figure 3.1: Complete package contents of the ELW-10M wave maker.

### 4. SETUP AND INSTALLATION

Follow these steps to properly install your Jebao ELW-10M wave maker.

1. **Positioning the Pump:** Select a suitable location inside your aquarium, typically on the side or back glass, ensuring adequate clearance from substrate and decorations. The pump should be fully submerged.
2. **Attaching the Magnetic Base:** Place the wave maker pump inside the aquarium at the desired location. Align the external magnetic base on the outside of the aquarium glass directly opposite the pump. The strong magnets will secure the pump in place.



Figure 4.1: Close-up view of the ELW-10M pump head.

3. **Adjusting Flow Direction:** The pump features a 3D rotation angle. Adjust the pump head to direct the water flow as needed for optimal circulation in your aquarium.
4. **Connecting the Controller:** Connect the pump cable to the designated port on the smart controller.
5. **Power Connection:** Connect the AC power adapter to the controller, then plug the adapter into a standard electrical outlet.
6. **Wi-Fi Setup (Optional):** For advanced control, download the Jebao app (available for iOS and Android) from your device's app store. Follow the in-app instructions to connect your wave maker to your home Wi-Fi network (2.4GHz only).

## 5. OPERATION

The ELW-10M wave maker can be operated via its manual controller or through the Jebao smartphone app.

### Manual Control:

The LCD display controller allows for direct adjustment of pump settings. Refer to the controller's specific button functions for changing modes, flow intensity, and other parameters. Typically, buttons are used to cycle through different wave patterns (e.g., constant flow, pulse mode) and adjust flow rate.

### Wi-Fi App Control:

Once connected to Wi-Fi, the Jebao app provides comprehensive control over your wave maker. This includes:

- Real-time adjustment of flow speed and wave patterns.
- Scheduling custom operating times and modes.
- Access to advanced features and settings not available on the manual controller.
- Monitoring device status.

Ensure your smartphone is connected to the same 2.4GHz Wi-Fi network as the wave maker during initial setup and for reliable control.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your wave maker.

- **Cleaning the Impeller:** Over time, algae and debris can accumulate on the impeller, reducing efficiency. Disconnect power, remove the pump from the aquarium, and carefully disassemble the front cage to access the impeller. Clean the impeller and its housing with a soft brush and clean water.
- **Housing Cleaning:** Wipe down the pump housing and magnetic base with a soft cloth to remove any buildup.
- **Cable Inspection:** Periodically inspect the power cable and pump cable for any signs of wear or damage. Replace if necessary.
- **Reassembly:** Ensure all parts are correctly reassembled before returning the pump to the aquarium and reconnecting power.

## 7. TROUBLESHOOTING

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If you encounter issues with your ELW-10M wave maker, refer to the following common problems and solutions:

- **Pump Not Operating:**
  - Check if the power adapter is securely plugged into both the controller and the wall outlet.
  - Ensure the pump cable is firmly connected to the controller.
  - Verify that the power outlet is functional.
  - Inspect the impeller for any obstructions or debris that might be preventing it from spinning. Clean if necessary.
- **Weak Flow/Reduced Performance:**
  - Clean the impeller and pump housing to remove any algae or mineral buildup.
  - Ensure the pump is fully submerged and not drawing air.
  - Check the controller settings to ensure the flow rate is set to the desired level.
- **Wi-Fi Connection Issues:**
  - Confirm your Wi-Fi network is 2.4GHz. The device does not support 5GHz networks.
  - Ensure your smartphone is connected to the same 2.4GHz network during setup.
  - Restart your Wi-Fi router and the wave maker controller.
  - Ensure the wave maker is within range of your Wi-Fi router.
- **Pump Moving/Sliding on Glass:**
  - Ensure the magnetic base is properly aligned and securely attached to both sides of the aquarium glass.
  - Check for any debris or film between the magnets and the glass that might reduce grip.
  - Verify the aquarium glass thickness is within the recommended range for the magnetic base.

If problems persist after attempting these solutions, please contact customer support.

## 8. SPECIFICATIONS

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Detailed technical specifications for the Jebao ELW-10M Smart Wave Maker Circulation Pump:

Feature	Specification
Model	ELW-10M
Brand	Jebao
Max Flow Rate	1056 GPH (Gallons Per Hour)
Recommended Tank Size	30-50 Gallons
Power Source	AC (via adapter)
Voltage	DC 24V
Power Consumption	10W
Pump Dimensions (approx.)	2-1/4" diameter x 1-1/2" (without magnet)
Material	Plastic
Color	Black
Connectivity	Wi-Fi (2.4GHz)



Figure 8.1: Product label with specifications on the ELW-10M pump.

## 9. WARRANTY AND SUPPORT

This product comes with a manufacturer's warranty against defects in materials and workmanship. The duration and terms of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For technical support, warranty inquiries, or replacement parts, please contact the retailer where you purchased the product or visit the official Jebao website for customer service contact information.

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 <p><b>Jebao</b> <b>Smart Wave Maker</b> USER'S MANUAL</p> <p><b>WARNINGS</b></p> <ol style="list-style-type: none"> <li>1. Before installation, read the page with key.</li> <li>2. Do not use the device in a wet place. Do not use the device in a wet place.</li> <li>3. Do not use the device in a wet place. Do not use the device in a wet place.</li> <li>4. Do not use the device in a wet place. Do not use the device in a wet place.</li> <li>5. Do not use the device in a wet place. Do not use the device in a wet place.</li> </ol> <p>MCP, MUV, MOW SERIES</p>	<p><a href="#">Jebao Smart Wave Maker User Manual - Setup, Operation, and Troubleshooting</a></p> <p>Comprehensive user manual for the Jebao Smart Wave Maker (MCP, MLW, MOW SERIES), covering installation, features, app control via Jebao Aqua, various wave modes, troubleshooting, and maintenance. Learn how to set up and operate your Jebao wave maker for optimal aquarium conditions.</p>
 <p><b>Jebao</b> <b>Cross-Flow Wave Pump</b> USER MANUAL</p>	<p><a href="#">Jebao Cross-Flow Wave Pump User Manual: CP-90, CP-120, CP-150</a></p> <p>User manual for Jebao Cross-Flow Wave pumps, models CP-90, CP-120, and CP-150. Includes safety instructions, assembly guidance, controller operation, maintenance, and technical specifications.</p>
 <p><b>Jebao</b> <b>Smart DC Pump</b> USER MANUAL</p> <p><b>MDP Series</b> MDP-2500, MDP-3000, MDP-3500, MDP-4000, MDP-4500, MDP-5000, MDP-5500, MDP-6000, MDP-6500</p>	<p><a href="#">Jebao Smart DC Pump User Manual - MDP Series</a></p> <p>Comprehensive user manual for Jebao Smart DC Pumps (MDP Series), covering features, operation, app control, Wi-Fi setup, maintenance, and troubleshooting.</p>
 <p><b>Jebao</b> <b>UV Fountain Pump</b> USER MANUAL</p>	<p><a href="#">Jebao UV Fountain Pump User Manual</a></p> <p>User manual for Jebao UFP-1000 and UFP-2000 UV fountain pumps, detailing installation, maintenance, troubleshooting, and safety instructions.</p>
 <p><b>connex</b> <b>CONNECT</b> <b>SMART</b> <b>TECH</b></p> <p>SMART WI-FI &amp; BLUETOOTH 10M LED LIGHT STRIP</p> <p>USER MANUAL</p>	<p><a href="#">Connex Connect Smart Wi-Fi &amp; Bluetooth 10M LED Light Strip User Manual</a></p> <p>User manual for the Connex Connect Smart Wi-Fi &amp; Bluetooth 10M LED Light Strip, detailing setup, connection modes (Easy and AP), specifications, FAQs, important safety information, cleaning, disposal, support contacts, and warranty details.</p>
 <p><b>Jebao</b> <b>DC Pump</b> USER MANUAL</p>	<p><a href="#">Jebao DC Pump User Manual - DCP Series</a></p> <p>Comprehensive user manual for Jebao DC Pumps (DCP-2500 to DCP-20000), covering features, operation, maintenance, and troubleshooting.</p>