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A052

Generic USB Type-C Ultrasonic Mist Maker Module (Model A052)

INSTRUCTION MANUAL

1. Introduction

This manual provides essential information for the safe and effective use of the USB Type-C Ultrasonic Mist Maker Module with Atomizer Head. This compact water atomization kit is designed for DIY humidifier projects, decorative fog generation, and embedded electronics applications. It operates on 5V DC and uses ultrasonic atomization technology to generate a fine cool mist when used with clean water. Please read these instructions carefully before installation and operation.

2. Product Overview

The module includes an ultrasonic atomizer head and a compatible driver control board, providing the primary components required for integration into various projects.

Key Features:

- **USB Type-C Power:** Operates on a 5V USB Type-C power supply.
- **Complete Kit:** Includes an ultrasonic atomizer head and driver control board.
- **Fine Mist Output:** Utilizes ultrasonic vibration for consistent fine mist.
- **Compact Design:** Easy to integrate into various projects.
- **Versatile Use:** Suitable for DIY humidifiers, water atomization experiments, and embedded systems.

What's in the Box:

- 1 x Amplifier Module (Driver Control Board)
- 1 x Ultrasonic Atomizer Head with pre-attached cable



Image showing the compact USB Type-C Ultrasonic Mist Maker Module, including the driver board and the atomizer head with its attached cable.

3. Setup Instructions

1. **Connect the Atomizer Head:** Carefully connect the cable from the ultrasonic atomizer head to the designated port on the driver control board. Ensure the connection is secure.
2. **Prepare Water Container:** Place the atomizer head into a container filled with clean, fresh water. The atomizer head should be fully submerged, with the water level typically 0.5 to 2 cm above the ceramic disc for optimal mist production. Avoid using dirty or corrosive liquids.
3. **Power Connection:** Connect a 5V DC power source to the USB Type-C port on the driver control board. Compatible power sources include USB adapters, power banks, or other regulated 5V USB ports. Ensure the power supply can provide sufficient current (typically 300-500mA for stable operation).
4. **Placement:** Position the module and water container in a stable location, away from direct sunlight or heat sources. Ensure proper ventilation if integrating into an enclosed project.

4. Operating Instructions

1. **Power On:** Once the module is connected to a 5V USB Type-C power source and the atomizer head is submerged in water, the module should automatically begin to generate mist. Some modules may have an indicator light to show operation.
2. **Mist Output:** Observe the mist output. A fine, cool mist should be visible. If no mist or weak mist is produced, refer to the Troubleshooting section.
3. **Water Level:** Maintain an adequate water level. If the water level drops too low, the atomizer may stop producing mist or could be damaged. Some modules have low water level protection.
4. **Power Off:** To stop operation, simply disconnect the USB Type-C power supply from the driver control board.

5. Maintenance

- **Cleaning the Atomizer Head:** Over time, mineral deposits from water can accumulate on the ceramic disc of the atomizer head, reducing mist output. Gently clean the ceramic disc with a soft cloth or cotton swab. For stubborn deposits, a mild descaling solution (like diluted vinegar) can be used, followed by rinsing with clean water. Ensure the module is disconnected from power before cleaning.
- **Water Quality:** Always use clean, fresh water to prevent mineral buildup and ensure optimal performance. Distilled or demineralized water is recommended to prolong the life of the atomizer head.
- **Storage:** When not in use for extended periods, disconnect the power, clean the atomizer head, and store the module in a dry, cool place.

6. Troubleshooting

Problem	Possible Cause	Solution
No mist produced	◦ No power or insufficient power. ◦ Atomizer head not submerged. ◦ Ceramic disc dirty or damaged. ◦ Loose connection.	◦ Ensure 5V USB Type-C power is connected and functional. Try a different power source. ◦ Ensure atomizer head is fully submerged in water. ◦ Clean the ceramic disc. If damaged, replacement may be needed. ◦ Check all cable connections.
Weak or inconsistent mist	◦ Low water level. ◦ Dirty ceramic disc. ◦ Insufficient power supply.	◦ Add more water to the container. ◦ Clean the ceramic disc. ◦ Use a 5V power supply with adequate current output.
Module gets hot	◦ Operating without sufficient water. ◦ Overvoltage or incorrect power supply.	◦ Ensure atomizer head is always submerged. ◦ Verify power supply is exactly 5V DC. Discontinue use if overheating persists.

7. Specifications

Brand	Generic

Model Number	A052
Operation Mode	Ultrasonic
Power Input	5V DC via USB Type-C
Product Dimensions (D x W x H)	35D x 20W x 10H Millimeters (approximate for driver board)
Item Weight	100 Grams
Country of Origin	India

8. Warranty Information

This product is typically covered by a **10-day replacement policy** from the date of purchase, subject to the seller's terms and conditions. Please retain your proof of purchase for any warranty claims.

Extended warranty options may be available from third-party providers at the time of purchase. Please refer to the specific terms of any extended warranty plans you may have acquired.

9. Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your product, please contact the seller or manufacturer directly.

- **Manufacturer:** Third party
- **Packer Contact Information:** GOPINATH ELECTRONICS
- Refer to your purchase documentation for specific seller contact details.

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