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Wisoqu Wisoquq7izmhaow5

High Impedance Amplifier User Manual

Model: Wisoquq7izmhaow5 | Brand: Wisoqu

1. Introduction

The Wisoqu High Impedance Amplifier is a specialized impedance conversion device designed to transform higher impedance signals into a standard 50 ohm output impedance. This device plays a crucial role in impedance matching and signal isolation, particularly for passive antenna reception. It is suitable for a variety of antenna types, including donut resonance antennae, tie rod antennae, whip antennae, and magnetic rod antennae.

This manual provides essential information for the proper setup, operation, and maintenance of your High Impedance Amplifier.

2. Key Features

- **Impedance Conversion:** Converts high impedance signals to a standard 50 ohm output for optimal matching and isolation.
- **Wide Application:** Ideal for passive antenna reception matching, compatible with donut resonance antennae, tie rod antennae, whip antennae, and magnetic rod antennae.
- **Broad Compatibility:** Can be used with any radio receiver, including Software Defined Radios (SDR) like Malachite, and various loop antennae models such as Mini Loop.
- **Enhanced Performance:** High input impedance (1MΩ) minimizes energy loss from unstable antenna impedance, significantly improving reception performance.
- **Direct LC Resonance Antennae Connection:** Directly connects to LC resonance antennae (e.g., donut antennas, magnetic bar antennas) to achieve higher gain and frequency selection characteristics.
- **Integrated Battery:** Features a built-in 600mAh lithium-ion battery for extended operation (over 24 hours).

3. Product Specifications

Uses

High resistance amplifier is a kind of impedance conversion device, which can convert the higher impedance to the standard 50 ohm output impedance, so as to play the role of impedance matching and isolation

Mainly used for passive antennae reception matching, suitable for donut resonance antennae, tie rod antennae, whip antennae, magnetic rod antennae, etc



Image: The High Impedance Amplifier showing its compact dimensions of 50mm x 45mm x 18mm.

Specification	Value
Item Type	High Impedance Amplifier
Material	Metal
Dimensions (L x W x H)	Approx. 50 x 45 x 18 mm / 1.97 x 1.77 x 0.71 inches
Input Impedance	1MΩ
Output Impedance	50Ω
Gain	0dB
Bandwidth	300MHz

Specification	Value
Charging Interface	Type-C
Charging Current	600mA
Operating Time	>24 hours
Built-In Battery Capacity	600mAh Lithium Ion Battery
Item Weight	Approx. 2.08 ounces
Model Number	Wisoquq7izmhaow5

4. Package Contents

Upon opening the package, please verify that all components are present and in good condition:

- 1 x High Impedance Amplifier
- 4 x Foot Pads



Image: The High Impedance Amplifier shown alongside the four included foot pads.

5. Setup

The High Impedance Amplifier is designed for straightforward installation. Follow these steps to set up your device:

1. **Attach Foot Pads:** Peel the adhesive backing from the four foot pads and attach them to the bottom corners of the amplifier. This provides stability and protects surfaces.
2. **Connect Input Antenna:** Connect your high impedance antenna (e.g., donut antenna, whip antenna) to the input port labeled "HI-Z" or "INPUT" on the amplifier. Ensure a secure connection.
3. **Connect Output to Receiver:** Connect the output port labeled "OUTPUT" or "50Ω" on the amplifier to your radio receiver or Software Defined Radio (SDR) using a 50 ohm coaxial cable.
4. **Power On:** Locate the ON/OFF switch on the amplifier and slide it to the "ON" position. The indicator light should illuminate.
5. **Charging (if needed):** If the battery is low, connect a Type-C USB cable to the charging interface and plug it into a suitable USB power source (e.g., computer, wall adapter). The charging indicator will show the charging status.



Image: Top view of the amplifier, highlighting the input and output connectors for antenna and receiver.

6. Operating Instructions

Once the amplifier is set up and powered on, it will automatically begin converting the impedance of the connected antenna. No further configuration is typically required for basic operation.

- **Signal Reception:** The amplifier works to optimize the signal transfer from your high impedance antenna to your 50 ohm receiver, improving overall reception quality and reducing signal loss.
- **Battery Life:** The built-in 600mAh battery provides over 24 hours of continuous operation. Monitor the indicator light for low battery warnings, if available.
- **Charging:** Recharge the device via the Type-C port when the battery is depleted. It is recommended to fully charge the device before initial use.



Image: The amplifier shown in a typical application scenario, connected to two different types of loop antennae.

7. Maintenance

To ensure the longevity and optimal performance of your High Impedance Amplifier, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the device. Avoid using abrasive cleaners, solvents, or harsh chemicals.
- **Storage:** When not in use for extended periods, store the amplifier in a cool, dry place away from direct sunlight and extreme temperatures.

- **Battery Care:** For optimal battery health, avoid completely draining the battery frequently. If storing for a long time, charge the battery to about 50% every few months.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion.

8. Troubleshooting

If you encounter issues with your High Impedance Amplifier, consider the following troubleshooting steps:

- **No Power:**
  - Ensure the ON/OFF switch is in the "ON" position.
  - Check if the battery is charged. Connect the Type-C cable to a power source to charge the device.
- **Poor Signal Reception:**
  - Verify that both the input antenna and output receiver cables are securely connected to the amplifier.
  - Ensure your antenna is properly positioned and functioning correctly.
  - Confirm that the amplifier's ON/OFF switch is in the "ON" position.
- **Device Overheating:**
  - While normal operation may cause slight warmth, excessive heat could indicate an issue. Disconnect the device and allow it to cool. Ensure adequate ventilation around the unit.

If problems persist after attempting these steps, please refer to the warranty and support information.

9. Warranty and Support

This product is subject to a standard return policy, typically allowing for a refund or replacement within 30 days of purchase. Please retain your proof of purchase for any warranty claims.

For technical support, troubleshooting assistance beyond this manual, or warranty inquiries, please contact the seller or manufacturer through the platform where the product was purchased. Provide your model number (Wisoquq7izmhaow5) and a detailed description of the issue to facilitate faster service.

For more information about Wisoqu products, you may visit theWisoqu Store on Amazon.

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