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Hilitand RM

Hilitand Resonance Speaker 50MM User Manual

Model: RM (4Ω 25W)

Introduction

This manual provides detailed instructions for the Hilitand Resonance Speaker 50MM. This innovative speaker utilizes vibration technology to produce full-frequency sound with powerful bass, effectively transforming various surfaces into sound-producing elements. Its compact design and 360° frequency transmission make it versatile for a wide range of audio applications.

Product Overview



The Hilitand Resonance Speaker 50MM is a compact audio transducer designed to deliver rich, full-range sound. Unlike traditional speakers, it transmits sound through vibrations, allowing surfaces like tables, walls, or boxes to act as soundboards. This results in a unique audio experience with strong bass and clear sound across all frequencies.



The speaker's design includes a robust metal casing and an internal vibration mechanism. It features two wire leads for connection to an audio amplifier. The top plate is designed to make direct contact with the surface you wish to resonate, ensuring efficient sound transfer.

Setup and Installation

Proper setup is crucial for optimal performance of your Hilitand Resonance Speaker. This speaker requires an external audio amplifier to function.

Connecting the Speaker:

1. **Power Source:** Ensure your audio amplifier is powered off before making connections.
2. **Wiring:** Connect the two wire leads from the resonance speaker to the output terminals of your audio amplifier. The leads are thin; handle them carefully to avoid damage. If your amplifier requires an auxiliary jack, you may need to attach one to the bare wires.
3. **Amplifier Compatibility:** Ensure your amplifier's output impedance matches the speaker's impedance (4Ω for this model) and that its power output is suitable (up to 25W).

Mounting the Speaker:

The performance of the resonance speaker is highly dependent on the surface it is mounted on. Experiment with different materials and thicknesses for varied sound characteristics.

- **Surface Selection:** Choose a flat, rigid surface that can vibrate freely, such as a wooden desk, glass panel, cardboard box, or thin metal sheet. Larger and less dense surfaces generally produce more bass.
- **Placement:** Place the flat top surface of the resonance speaker firmly against the chosen surface. You can use adhesive pads, double-sided tape, or a clamp to secure it. Ensure good contact for efficient vibration transfer.
- **Stereo Setup:** For a stereo sound experience, use two resonance speakers and mount them on separate surfaces or at different points on a larger surface, connecting each to a dedicated channel of a stereo amplifier.

Operating Instructions

Once connected and mounted, operating the Hilitand Resonance Speaker is straightforward.

Basic Operation:

1. **Power On:** Turn on your audio amplifier and the audio source (e.g., computer, laptop, MP3 player, mobile phone).
2. **Volume Control:** Start with a low volume on your amplifier and gradually increase it to your desired listening level.
3. **Sound Characteristics:** The sound produced will vary significantly based on the mounting surface. Experiment with different surfaces to discover unique acoustic properties.



The Hilitand Resonance Speaker is compatible with a wide range of devices including computers, laptops, MP3 players, MP4 players, CD players, mobile phones, and PSPs. Its 360° frequency transmission ensures that sound is distributed effectively through the vibrating surface, providing a clear audio experience without traditional speaker standing waves.

Maintenance

The Hilitand Resonance Speaker is designed for durability and requires minimal maintenance.

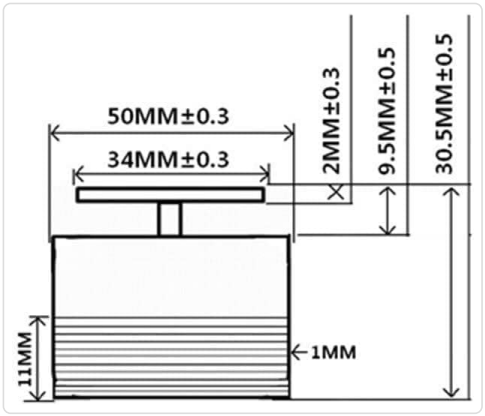
- **Cleaning:** Wipe the exterior of the speaker with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Storage:** When not in use, store the speaker in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the speaker carefully, especially the wire leads, to prevent damage. Avoid dropping or subjecting it to strong impacts.

Troubleshooting

If you encounter issues with your Hilitand Resonance Speaker, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound or very low sound.	• Incorrect wiring. • Amplifier not powered on or volume too low. • Poor contact with mounting surface. • Incompatible amplifier or audio source.	• Check all wire connections to the amplifier. • Ensure amplifier is on and volume is increased. • Re-position the speaker to ensure firm contact with the surface. • Verify amplifier impedance and power output match speaker requirements.
Distorted or unclear sound.	• Overdriving the speaker (volume too high). • Unsuitable mounting surface. • Loose connection.	• Reduce the amplifier volume. • Try mounting the speaker on a different surface. • Check and secure all connections.
Speaker not vibrating.	• No audio signal from source. • Damaged speaker wires. • Faulty amplifier.	• Verify audio source is playing and connected correctly. • Inspect speaker wires for cuts or breaks. • Test amplifier with another speaker if possible.

Specifications



Brand:	Hilitand
Model Name:	Resonance Speaker 50MM

Item Model Number:	RM
Speaker Type:	Computer (Resonance)
Impedance:	4 Ohm
Speaker Maximum Output Power:	25 Watts
Frequency Response:	20 Hz - 20 kHz
Product Dimensions (DxWxH):	1.97"D x 1.97"W x 1.18"H (50mm x 50mm x 30mm)
Item Weight:	0.27 Kilograms (9.5 ounces)
Connectivity Technology:	Wired (requires 3.5mm Audio Jack adapter for direct connection to some devices)
Compatible Devices:	Smartphone, Tablet, MP3 Player, Desktop, Television, Projector, Laptop
Included Components:	Vibration Speaker

Warranty and Support

Hilitand products are designed for quality and reliability. For support or warranty inquiries, please refer to the following information:

- **Return Policy:** This product typically comes with a 30-day refund/replacement return policy. Please check your purchase details for specific terms.
- **Manufacturer:** Hilitand
- **Customer Service:** For further assistance, please visit the official Hilitand store on Amazon or contact their customer support directly. You can find more information at the Hilitand Store.

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