



Technical parameters are subject to change without prior notice.

AUX50I Invisible Speakers

www.auxdio.com.cn



User Manual



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Packing list

Item	Quantity
Invisible speaker	1
Screw bag	1
User Manual	1

2. Sound distortion or squeak at moderate volume level

Loose screw or incomplete fixing of other accessories may cause this problem.

Check and ensure the screws and fixtures are firmly installed.

If there is still a faulty sound, please remove the speaker from the wall, do not play any audio, gently shake the speaker.

If there is a significant squeak when shaking, check for foreign objects (screw, etc.) that may fall into the rear. Meanwhile check if the wiring is incorrect. Make sure that the wire is not on the rear panel of the speaker during installation.

Then, gently press the center of the panel. Listen carefully if the voice coil on the speaker squeaks, it indicates that the speaker unit has been overdriven or damaged and needs to be returned to your supplier for repair. If the problem persists, please consult your supplier for after-sales service.

3. Sound distortion at high volume

This diffusive speaker has a very fast response speed and can accurately and clearly transmit audio signals. Minimize all system parameters to eliminate problems caused by other devices, such as filters, frequency dividers and equalizers. When the amplifier is used at the maximum power level or is overloaded, the input signal may enter the clipping stage. In this case, such diffusing speakers are more prone to distortion than some conventional speakers. At this point, you can adjust or upgrade your drive system.

Specification

Frequency response	150Hz -20 kHz
Sensitivity (1w/1m)	87±2dB
Impedance	8Ω
Normal power	20W
Maximum SPL	100±2dB
Product dimension	400mm×300mm×16mm
Package Dimension	450mm×305mm×72mm
Weight	1.7 kg

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Preface

Thank you for choosing our products. All products have been rigorously tested before leaving the factory, abide by the quality of commitment. This product is widely used in schools, gymnasiums, square venues, parks, parking lots, railway, stations, airports, villas, shopping malls and other places, is the ideal choice for public broadcasting. In order to facilitate your installation, commissioning and use of this product, please read this manual before installation.

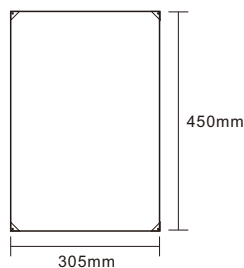
Overview

Introduction

Once the AUXDIO invisible speaker is installed on the wall, you can hear the music without seeing the entity. It can be free from the limitations of space, making music everywhere and truly invisible. And it can provide a comfortable and elegant music environment, bringing you a high-quality music experience.

Features

1. Music can be transmitted in all directions, covering a wide range and spreading distance.
2. A range of frequency response covering treble, baritone and bass.
3. The decrease of SPL is more deviated from the axis.
4. Radiated sound energy is transmitted in a non-directional way and spreads more evenly to every corner of the room.
5. Perfectly integrated into any decorative background.



System requirements

1. High-quality music output amplifier.
2. It is recommended to add equalization processing (preferably on each channel) to the system to adjust the final frequency response. A separate equalizer, or an audio processor with equalization can be added to the system. Different wall structures can change the frequency response of speakers. The equalization adjustment for each channel can compensate for speaker differences and optimize them. If the speaker is mounted on a wall or ceiling, there is a large cavity space behind it, the resonance is generated when the speaker sounds, so the sound may have a cavity sound outside the subwoofer. At this time, the system balance needs to be adjusted to reduce the resonance of the low frequency.

Faulty descriptions

Before installing the speaker, ensure that you already perform electrical and acoustic tests to avoid repairing the product later. The following guidelines are designed to help you with problems you may encounter during these tests.

1. The speaker has no sound

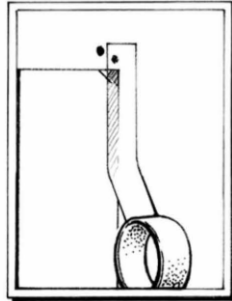
Check if your audio system is powered, on, and running.

Check if all line connections and the specifications are correct.

Check if the cable length exceeds the effective transmission distance.

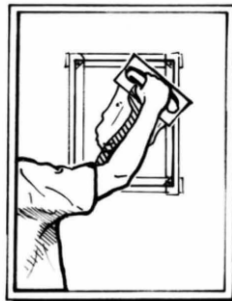
If the problem persists, please consult your supplier for after-sales service.

10. Fill the gap between the speaker and the plasterboard with putty.
11. Use a seam tape to cover the entire speaker surface and the seam location with the surrounding wall (Figure 4).



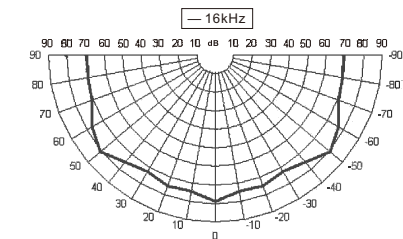
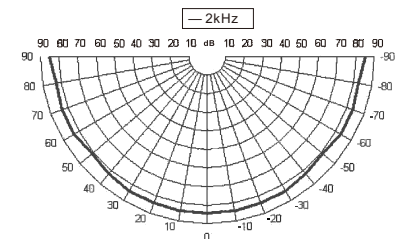
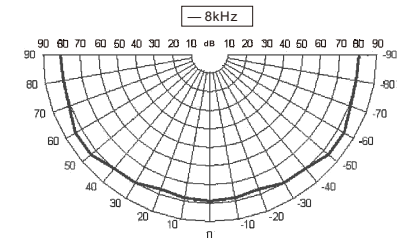
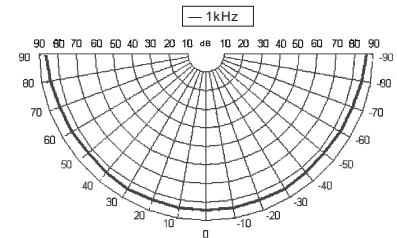
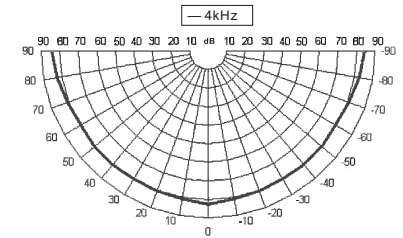
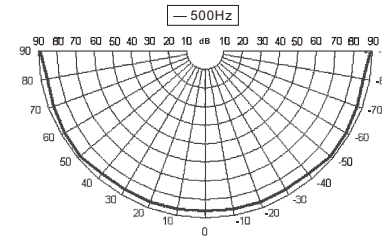
(Figure 4)

12. Apply a 2mm thick putty to the entire wall and speaker surface (Figure 5).
13. Use the sweep signal and music/vocal tracks for the final audio test.
14. Paint the walls and be prepared to enjoy the music.



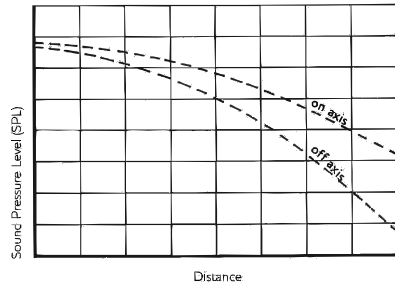
(Figure 5)

Sound coverage

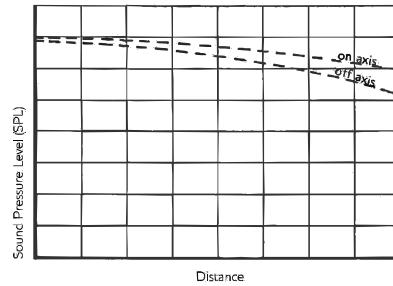


SPL comparison

Conventional cone speaker

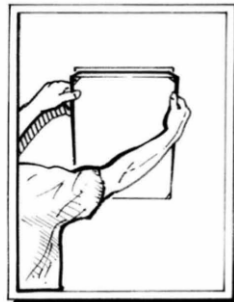


Flat speaker



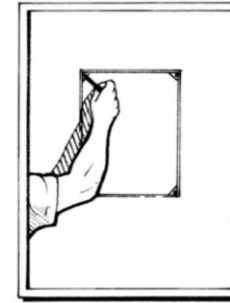
Installation

1. Cut a square hole in the wall and check the space of the rear keel, beam or frame. Measure the spacing between keel, beam or frame to verify if there is enough room to install the box.
2. Use a pencil to draw lines on the wall to outline where you need to open the hole. Use the tool to cut the wall to the appropriate size along the lines (Figure 1).



(Figure 1)

3. Pull the speaker line into the outlet on the side of the box and connect the audio line.
4. Insert one side of the box into the open position and then place the entire box into the plasterboard.
5. Use the 8 screws, insert 4 locking bottom boxes on each side. Note that this step does not require prior drilling.
6. Strip and tighten the speaker line, with good-quality crimping tool.
7. Put the extra speaker lines out of the box, ensure that no extra speaker lines touch the rear of the speaker after installation.
8. After the speaker is locked with screws, check if the surrounding area is 2mm away from the wall opening and confirm if the speaker is flush with the wall (Figure 2).



(Figure 2)

9. Please test the speaker immediately. Check the impedance at the other end of the speaker line and use the sweep signal for the audio test. Ensure there are no weird mechanical noises from the speaker surface, the box or the adjacent wall/ceiling structure.