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FiiO SA1

FiiO SA1 High-Fidelity Desktop Speaker Instruction Manual

Model: SA1

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Overview Setup Operation Specifications Maintenance Troubleshooting Warranty &
Support

1. INTRODUCTION

Thank you for purchasing the FiiO SA1 High-Fidelity Desktop Speaker. This manual provides essential information for the proper setup, operation, and maintenance of your device. Please read it thoroughly before use to ensure optimal performance and longevity of your speakers.

2. SAFETY INFORMATION

- **Power Supply:** Use only the provided power cable and adapter. Ensure the power source matches the voltage requirements specified on the device.
- **Ventilation:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **Water and Moisture:** Do not expose this apparatus to rain or moisture. Do not place objects filled with liquids, such as vases, on the apparatus.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Cleaning:** Clean only with a dry cloth.
- **Servicing:** Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

3. PACKAGE CONTENTS

Please check that all items are present in your package:

- FiiO SA1 Desktop Speaker (Pair)

- Power Cable
- Remote Control
- User Manual (this document)

4. PRODUCT OVERVIEW

The FiiO SA1 is a high-fidelity desktop active speaker system designed for a superior audio experience. It features a robust construction with wood and aluminum-magnesium alloy, offering versatile connectivity and advanced sound customization.



Figure 1: Front and rear view of the FiiO SA1 Desktop Speakers. The image displays the speaker's elegant design with wood side panels and the various input/output ports on the rear.



MDF cabinet A natural sound

The SA1's cabinet is made of high-density MDF with a thickness of up to 12mm. The top and sides of the cabinet adopt a 9mm thick imitation solid wood veneer, which can effectively reduce sound resonance for a purer and more natural sound. To simplify the frontal design of the SA1 looks more concise and to achieve better sound, the SA1 uses a rear guide tube design that allows for bass extension down to 65Hz, giving these compact speakers a big punch.

Figure 2: Close-up of the physical control knobs on the FiiO SA1 speaker. Two large physical knobs are visible, one with an RGB light indicator, and a large button on the right side of the main speaker for convenient operation.

Key Components:

- **3.5-inch Wood Fiber Woofer:** Provides lush vocals and warm sound.
- **3/4 inch Aluminum-Magnesium Alloy Dome Tweeter:** Delivers crisp, clear sound with rich detail.
- **Physical Knobs:** For convenient control of volume and other settings.
- **Remote Control:** Included for full-featured control from a distance.

5. SETUP

5.1 Power Connection

Connect the provided power cable to the DC 12V input port on the rear of the main speaker, then plug it into a wall outlet.

5.2 Speaker Placement

Place the speakers on a stable, flat surface, such as a desktop or bookshelf. For optimal stereo imaging, position them equidistant from your listening position and angled slightly inward.



Figure 3: FiiO SA1 speakers integrated into a desktop gaming setup, demonstrating ideal placement beside a monitor.

5.3 Audio Connections

The FiiO SA1 offers a variety of input and output options:

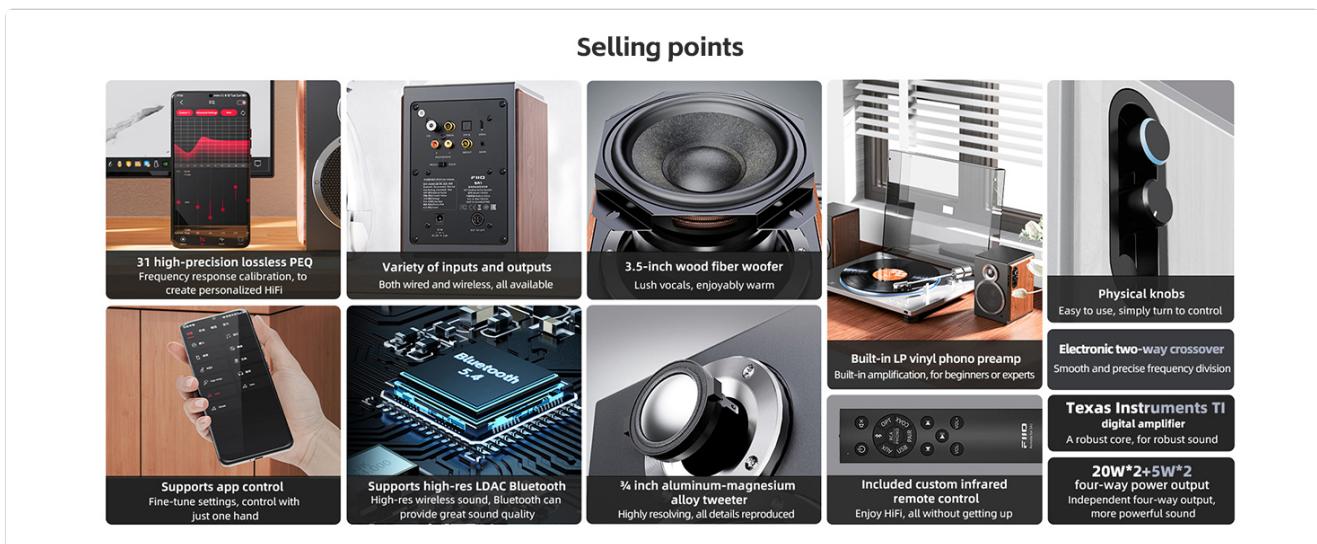


Figure 4: Rear panel of the FiiO SA1, highlighting the diverse range of input and output ports available for connectivity.

- **RCA and 3.5mm Analog Inputs:** Connect traditional audio sources.
- **USB, Coaxial, and Optical Digital Inputs:** For high-resolution digital audio.
- **Bluetooth 5.4:** For wireless high-bit-rate audio (LDAC supported).
- **Built-in Phono Preamp:** Connect a turntable directly (switch to PHONO setting if your turntable lacks a built-in preamp).
- **Subwoofer Output (RCA):** Connect an active subwoofer to create a 2.1 system.

6. OPERATION

6.1 Power On/Off

Use the power button on the speaker or the remote control to turn the device on or off.

6.2 Input Selection

Cycle through the available inputs (RCA, 3.5mm, USB, Coaxial, Optical, Bluetooth, Phono) using the input selector button on the speaker or remote control.

6.3 Volume Control

Adjust the volume using the main knob on the speaker or the volume buttons on the remote control.

6.4 31-Band Lossless PEQ (Parametric Equalizer)

The SA1 supports a 31-band high-precision lossless PEQ for all input modes. This allows for fine-tuning and calibration of the frequency response curve to optimize sound for your listening environment. PEQ adjustment is currently supported only via the FiiO Control app.

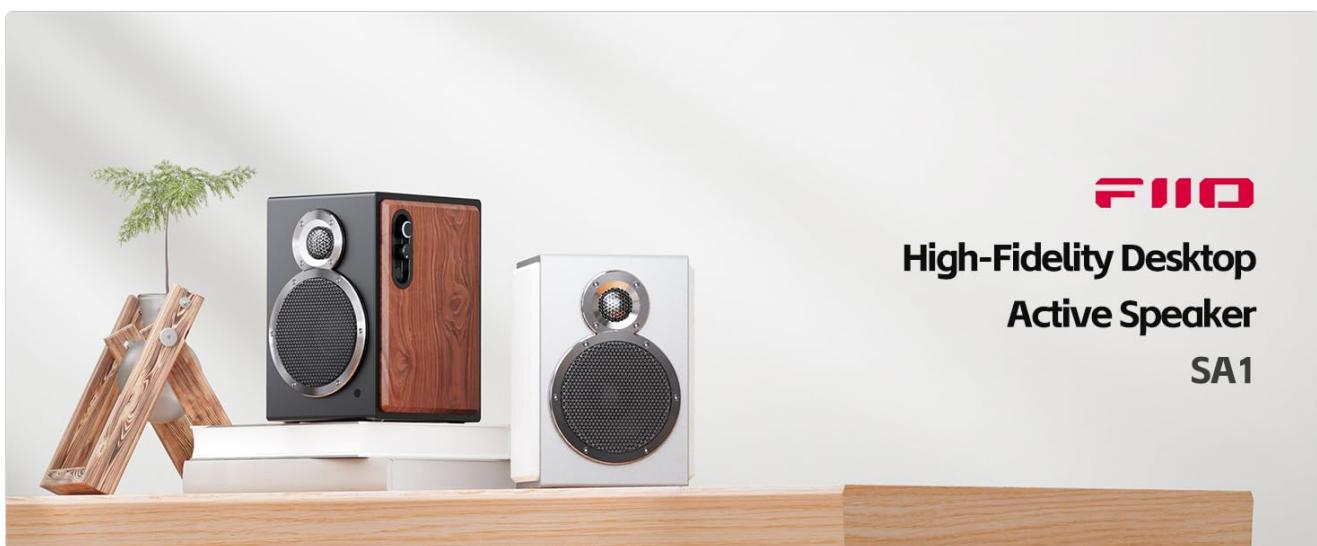


Figure 5: A smartphone screen showing the FiiO Control app's 31-band PEQ interface, allowing users to customize the sound profile of the SA1 speakers.

6.5 Bluetooth Connectivity

The SA1 supports LDAC high-definition Bluetooth decoding and Bluetooth version 5.4, enabling wireless high-bit-rate audio up to 990kbps. This ensures high-quality wireless sound, certified for Hi-Res Audio and Hi-Res Audio Wireless.

31-band high-precision lossless PEQ

Be your own pro audio engineer

The SA1, unlike most similar products, supports a 31-band high-precision lossless PEQ that can be used in all input modes. Through the FiiO Control app, you can fine-tune and calibrate the frequency response curve. For problems such as non-flat frequency response curves caused by complex room reverberation and standing waves, you can take control and optimize the sound thanks to the PEQ.

*PEQ adjustment is currently only supported via the control app

PEQ



Figure 6: An illustration of the Bluetooth 5.4 chip, emphasizing the SA1's advanced wireless audio capabilities.

6.6 App Control and Sound Presets

The FiiO Control app allows fine-tune settings and offers eight built-in sound presets (e.g., pop, jazz, classical, R&B, dance). You can also save up to three custom PEQ setups. A specially-tuned monitoring-style curve compensates for frequency response, transforming the SA1 into active desktop studio monitor speakers.

Variety of inputs and outputs

Find everything you need

The SA1 is a pair of active speakers with a wide variety of inputs and outputs when compared to similarly-priced products. It includes RCA and 3.5mm analog inputs; a built-in DSP; supports USB, coaxial, and optical digital inputs as well as high-res Bluetooth input. Particularly noteworthy of the SA1 is the built-in phono preamp, allowing even entry-level products to shine. The SA1 is also equipped with a subwoofer output, allowing the SA1 active speakers to perfectly fit within your home theater setup. The SA1 covers most usage cases for listeners looking for a speaker within its price range.



Figure 7: A hand holding a smartphone showing the FiiO Control app with various sound presets and customization options for the SA1 speakers.

6.7 Automatic Standby and Wake-up

If the SA1 does not detect any input for 20 minutes, it will enter standby mode. The RGB light indicator will turn red and turn off after 20 minutes. When a signal input is detected, the device will automatically wake up, and the RGB light indicator will return to its original color.



Physical knobs For convenient operation

Two large physical knobs, one of which is adorned with an RGB lightindicator, and a large button on the right side of the main speakermake operating the SA1 faster and easier.

Figure 8: An illustration depicting the FiiO SA1 speaker's automatic standby and wake-up functionality, indicated by changing light colors.

7. SPECIFICATIONS

Feature	Detail
Model Name	SA1
Speaker Type	Portable Speaker
Material	Wood, Aluminum-Magnesium Alloy
Color	Black
Product Dimensions	6.3"D x 5.51"W x 7.48"H
Item Weight	9.68 pounds (4.4 Kilograms)
Speaker Maximum Output Power	20 Watts (Woofer: 20W*2, Tweeter: 5W*2)
Connectivity Technology	Bluetooth, Coaxial, Optical, RCA, USB
Audio Output Mode	Stereo
Mounting Type	Tabletop Mount
Special Feature	Hi-Res Audio, 31-Band Lossless PEQ, Phono Preamp
Control Method	Remote

8. MAINTENANCE

- Cleaning:** Use a soft, dry cloth to clean the exterior of the speakers. Avoid using abrasive cleaners, waxes, or solvents.
- Dust:** Regularly dust the speaker grilles and surfaces to prevent accumulation that could affect sound quality or ventilation.
- Environment:** Keep the speakers in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.

9. TROUBLESHOOTING

- **No Sound:** Check power connection, input selection, volume levels on both the speaker and source device, and ensure cables are securely connected.
- **Distorted Sound:** Reduce volume, check audio source quality, ensure cables are not damaged, and verify speaker placement.
- **Bluetooth Pairing Issues:** Ensure the speaker is in Bluetooth pairing mode, disable and re-enable Bluetooth on your source device, and clear previous pairings if necessary.
- **Remote Control Not Working:** Check battery in the remote control and ensure there are no obstructions between the remote and the speaker.

10. WARRANTY & SUPPORT

The FiiO SA1 Desktop Speaker comes with a **Limited Warranty**. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, troubleshooting assistance, or service inquiries, please contact FiiO customer support through their official website or the retailer where you purchased the product.

Online Resources: For the latest firmware updates, FAQs, and additional support, please visit the official FiiO website.