

Audio Array AM-S1 BT

Audio Array AM-S1 BT Studio Monitors User Manual

Model: AM-S1 BT

1. INTRODUCTION

Thank you for choosing the Audio Array AM-S1 BT Studio Monitors. This manual provides essential information for the proper setup, operation, and maintenance of your new studio monitors. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

The AM-S1 BT studio monitors are designed for professional audio monitoring and high-fidelity listening, featuring 60W Class D amplification, a 4-inch woven composite woofer, and a 1-inch silk-dome tweeter. They offer versatile connectivity options including Bluetooth v5.3, HDMI, USB-C, Aux, TRS, and RCA inputs.

2. SAFETY INSTRUCTIONS

- Do not expose the speakers to water or moisture.
- Ensure proper ventilation to prevent overheating.
- Use only the provided power cable.
- Do not attempt to open or service the unit yourself. Refer all servicing to qualified personnel.
- Place speakers on a stable, level surface to prevent falls.
- Avoid placing speakers near heat sources or in direct sunlight.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 2 x Audio Array AM-S1 BT Studio Monitors (Active and Passive Speaker)
- 1 x Power Cable
- 1 x RCA Cable
- 1 x User Manual (this document)



WHAT'S IN THE BOX?



Image: Package contents for the AM-S1 BT studio monitors.

4. SETUP

4.1 Speaker Placement

For optimal sound reproduction, place the studio monitors on a stable surface, ideally at ear level, forming an equilateral triangle with your listening position. Ensure there is adequate space behind the speakers for proper bass port function and cable management.



Image: Example placement of AM-S1 BT studio monitors with a laptop.

4.2 Connecting the Speakers

The Audio Array AM-S1 BT system consists of one active speaker (with controls and inputs) and one passive speaker.

1. Connect the passive speaker to the active speaker using the provided speaker wire. Ensure correct polarity (red to red, black to black) for optimal sound.
2. Connect the power cable to the active speaker and then to a suitable power outlet (AC 100-240V, 50/60Hz).



Image: Rear panel of the AM-S1 BT speakers, showing connections.

4.3 Input Connections

The AM-S1 BT offers multiple input options. Choose the appropriate connection for your audio source:

- **Bluetooth v5.3:** For wireless connection to smartphones, tablets, and computers.
- **HDMI (ARC):** For connecting to compatible TVs or audio interfaces.
- **USB-C:** For digital audio connection to computers or other USB-C enabled devices.
- **AUX (3.5mm):** For connecting devices with a standard headphone jack.
- **TRS (6.35mm Balanced):** For professional audio equipment like audio interfaces or mixers.
- **RCA (Unbalanced):** For connecting to consumer audio equipment.

CONNECTIVITY OPTIONS

Bluetooth v5.3

HDMI

USB C

RCA

Balanced TRS

USB C

HDMI - Arc

Power Supply



Image: Rear panel with labeled input connections.

5. OPERATION

5.1 Power On/Off and Volume Control

The multifunction knob on the front of the active speaker controls power, volume, and mode selection.

- **Power On/Off:** Long press the multifunction knob to turn the speakers on or off.
- **Volume Adjustment:** Rotate the multifunction knob clockwise to increase volume and counter-clockwise to decrease volume.

One Knob Control



Image: Multifunction knob for power, volume, and mode.

5.2 Input Mode Selection

Single tap the multifunction knob to cycle through available input modes (Bluetooth, HDMI, USB-C, Aux, TRS, RCA). The LED indicator will change color or pattern to indicate the active mode.

5.3 Bluetooth Pairing

1. Ensure the speakers are powered on and in Bluetooth mode. The Bluetooth indicator light will typically blink.
2. On your device (smartphone, tablet, computer), enable Bluetooth and search for available devices.
3. Select "Audio Array AM-S1 BT" from the list.
4. Once paired, the Bluetooth indicator light will become solid.

5.4 EQ Controls and Listening Modes

The AM-S1 BT features acoustic tuning controls on the rear panel and dedicated listening modes.

- **Treble & Bass Adjustment:** Use the dedicated knobs on the rear panel to adjust the high and low frequencies (-6dB to +6dB) to suit your environment or preference.
- **Music Mode / Monitor Mode:** The speakers offer two listening modes. Single tap the "MODE" button (or press the multifunction knob, depending on model revision) to switch between Music mode (Red LED) and Monitor mode (Blue LED).
 - **Monitor Mode:** Provides a flat, accurate frequency response suitable for audio mixing and critical listening.
 - **Music Mode:** Enhances bass and treble for a more engaging listening experience, ideal for casual music playback.

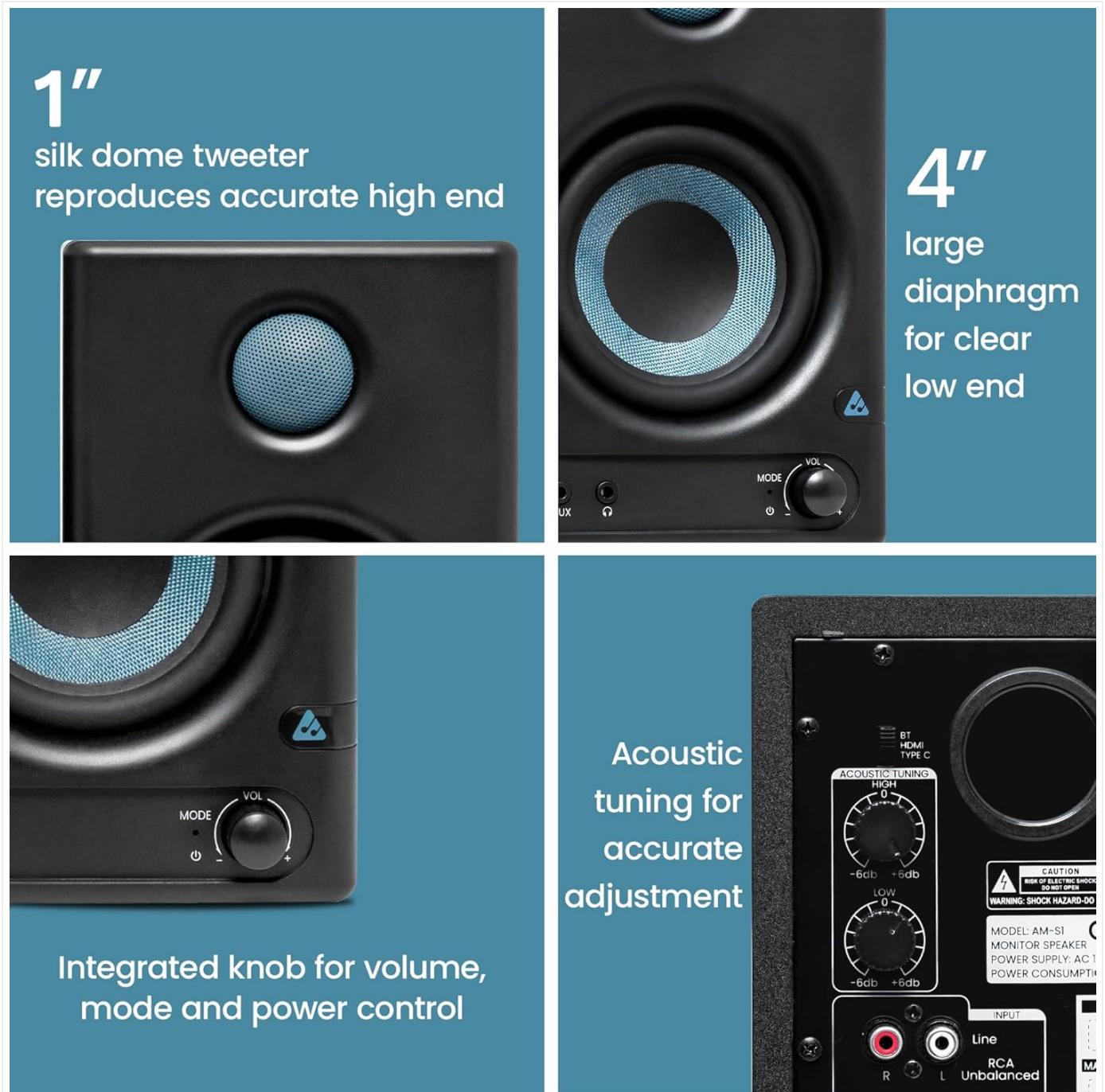


Image: Front panel detail and rear panel EQ controls.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the speaker cabinets. Do not use abrasive cleaners or solvents.
- **Dust Protection:** Keep the speakers free from dust, especially the drivers and rear ports, to maintain optimal performance.

- **Environmental Conditions:** Avoid extreme temperatures, high humidity, and direct exposure to sunlight.
- **Protection Features:** The speakers are equipped with built-in protection against overheating, RF interference, and power surges. However, it is recommended to use a surge protector for added safety.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from speakers	Power cable not connected or power off. Incorrect input mode selected. Volume too low. Source device not playing or volume too low. Speaker wire between active and passive speaker disconnected or incorrect polarity.	Ensure power cable is securely connected and speakers are powered on. Cycle through input modes using the multifunction knob. Increase speaker volume. Check source device playback and volume. Verify speaker wire connection and polarity.
Bluetooth connection issues	Speakers not in Bluetooth pairing mode. Device too far from speakers. Interference from other wireless devices. Previous connection interfering.	Ensure speakers are in Bluetooth mode (blinking LED). Move device closer to speakers (within 15 meters). Minimize interference by moving other wireless devices. Forget "Audio Array AM-S1 BT" on your device and re-pair.
Low volume from headphone output or AUX input	Inherent characteristic of the output/input. Source device volume too low.	Adjust the volume on the source device and the speaker. Note that some inputs may naturally have lower gain.
Unbalanced sound or clipping at low volumes	Audio signal too low or inconsistent at very low volume settings.	Increase the volume beyond the 20% mark for optimal performance. Adjust source volume if necessary to achieve desired listening level within the speaker's sweet spot.

8. SPECIFICATIONS

Detailed technical specifications for the Audio Array AM-S1 BT Studio Monitors.

Feature	Detail
Brand	Audio Array
Model Number	AM-S1 BT
Speaker Type	Monitor
Speaker Maximum Output Power	60 Watts (2 x 30W RMS)
Woofer Driver Diameter	4 Inches (Woven Composite)

Feature	Detail
Tweeter Driver Diameter	1 Inch (Silk-Dome)
Frequency Response	60Hz – 20KHz
Amplification Type	Class D
Connectivity Technology	Bluetooth v5.3, HDMI (ARC), USB-C, AUX (3.5mm), TRS (6.35mm Balanced), RCA (Unbalanced)
Audio Output Mode	Stereo 2.0
Control Method	Touch (Multifunction Knob)
Enclosure Material	Wood
Item Dimensions (D x W x H)	17D x 28W x 23H Centimeters
Item Weight	3.5 Kilograms
Input Voltage	AC 100-240V, 50/60Hz
Signal-to-Noise Ratio	64 dB
Bluetooth Range	Up to 15 Metres
Compatible Devices	Desktop, Laptop, Smartphone, Television



SPECIFICATION

Power Requirements	AC 100-240V 50/60Hz
Output Power	2 x 30W (60W RMS)
Driver	1" Silk dome tweeter + 4" woofer
Amplification type	Class D
Crossover frequency	2.8kHz
Input	6.35mm TRS Balanced Input RCA/3.5mm AUX Unbalanced Input/HDMI(ARC) /USB-TYPE C/Bluetooth v5.3
Output	3.5mm Headphone Output
Dual Sound Mode	Monitor mode & Music mode
Treble & Bass Adjustment	-6dB ~ +6dB
Frequency Response	60Hz-20KHz
Amplifier chip	Texas Instruments 3116D2
Processor	mvBP1048B2



Image: Specifications table for AM-S1 BT.

9. WARRANTY INFORMATION

The Audio Array AM-S1 BT Studio Monitors come with a **1 Year Manufacturer Warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship. Please retain your purchase receipt as proof of purchase. For warranty claims or service, please contact Audio Array customer support using the details provided in the Support section. The warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

10. CUSTOMER SUPPORT

For any support, feedback, or inquiries regarding your Audio Array AM-S1 BT Studio Monitors, please contact us using the information below:

Manufacturer: Audio Array, Cambium Retail Pvt Ltd

Address: 109 Hubtown Solaris N S, Professor NS Phadke Rd, Andheri East, Mumbai, Maharashtra 400069, India

Contact Number: +91 93721 46440

Email: support@audioarray.in

Our support team is available to assist you with any questions or issues you may encounter.

