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› Daakro YS-S100L 2.1 Channel Bluetooth Amplifier Board User Manual

Daakro YS-S100L

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Model: YS-S100L

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Daakro YS-S100L 2.1 Channel Bluetooth Amplifier Board. Please read this manual thoroughly before use to ensure proper functionality and to maximize your audio experience.

PRODUCT OVERVIEW

The Daakro YS-S100L is a versatile 2.1 channel Bluetooth amplifier board designed for DIY audio projects. It features 50W + 50W output for stereo channels and 100W for the subwoofer channel, with independent treble, bass, and subwoofer frequency/volume controls. Multiple input options including Bluetooth, USB, and AUX provide flexible connectivity.

TPA3116D2 HiFi Amplifier Board

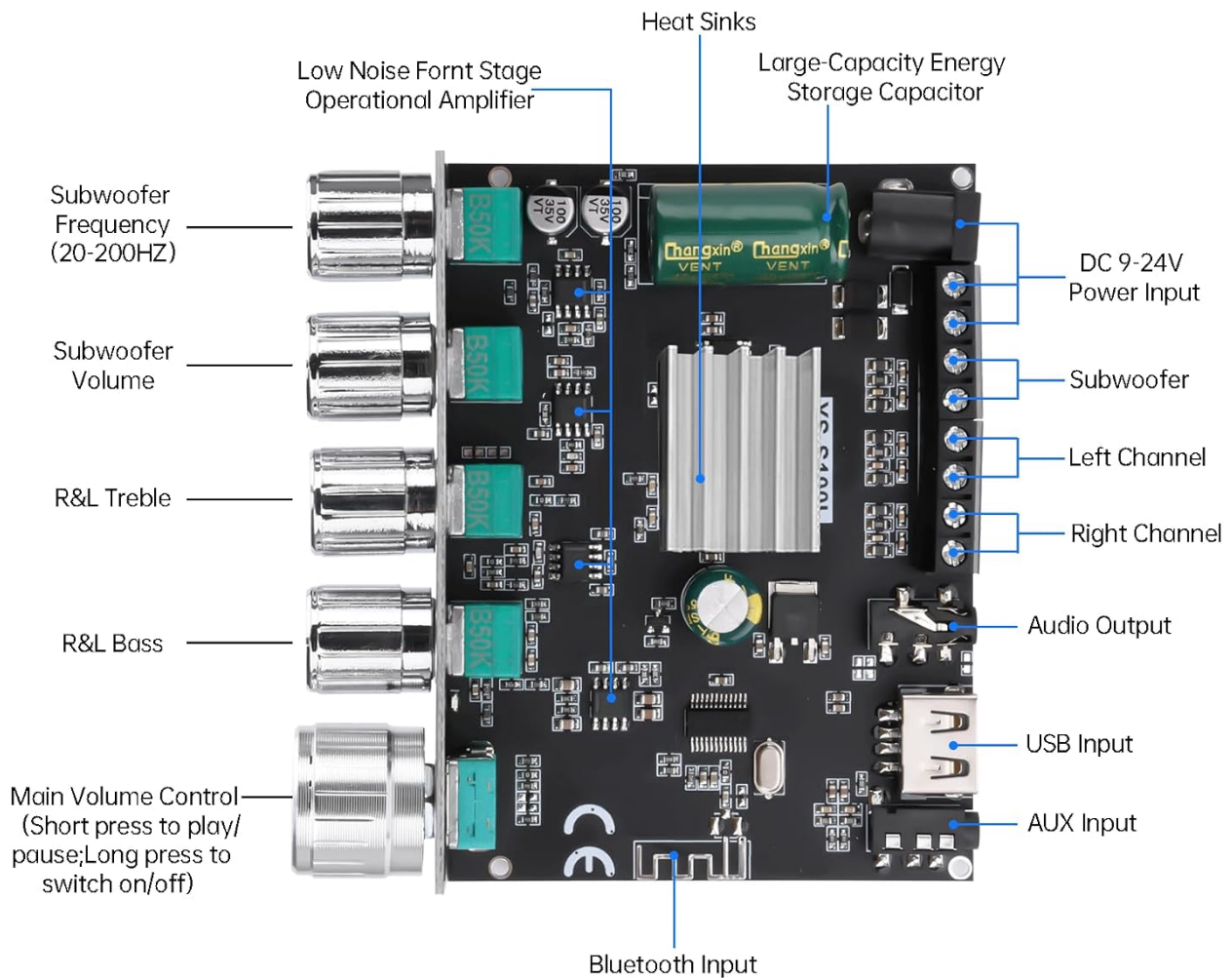


Image: Front view of the Daakro YS-S100L amplifier board, highlighting its various inputs, outputs, and control knobs.

What's in the Box

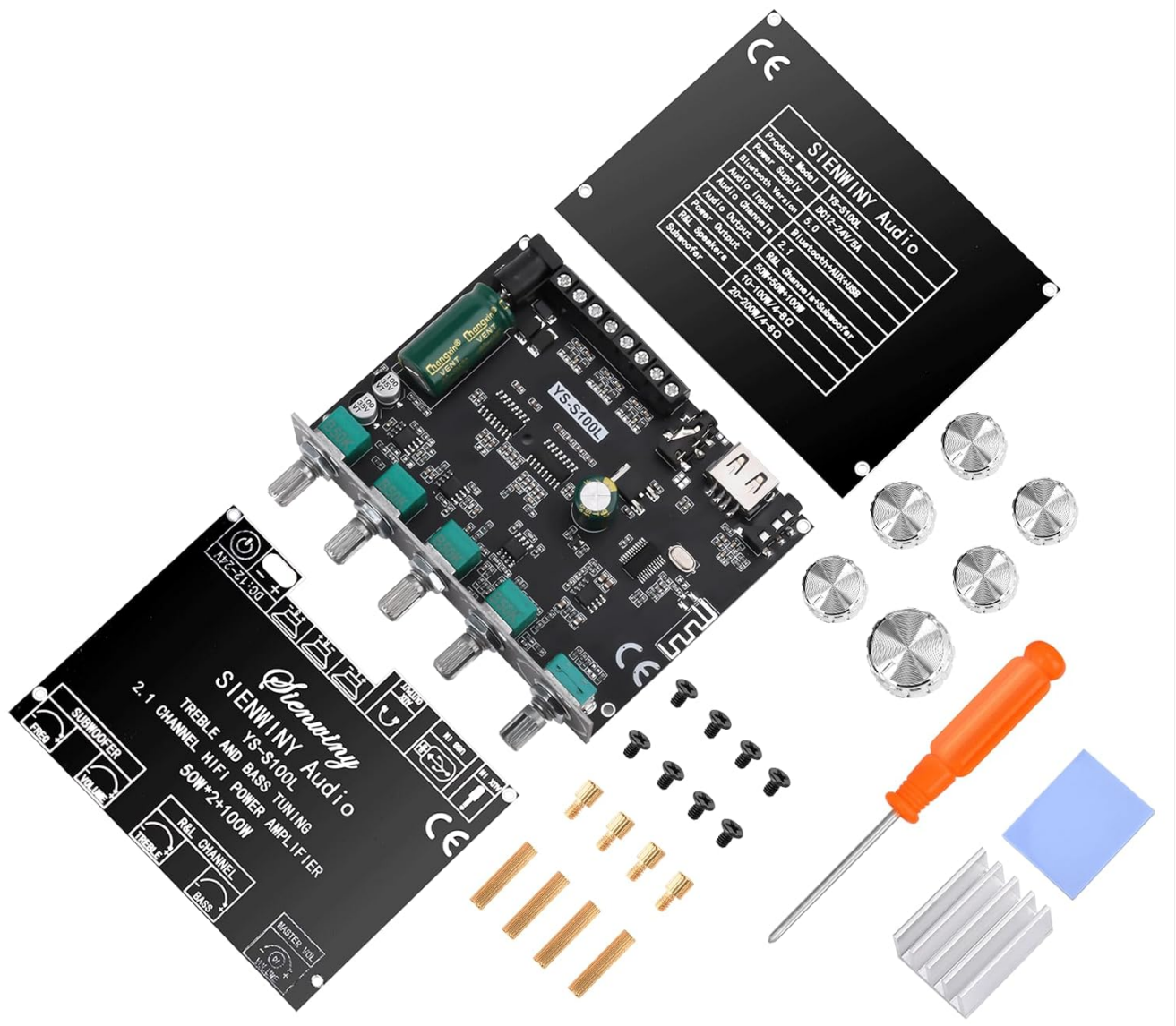


Image: Components included in the Daakro YS-S100L package, showing the amplifier board, knobs, screwdriver, and heat sink.

SETUP INSTRUCTIONS

Follow these steps to correctly set up your amplifier board:

- Power Connection:** Connect a DC 9-24V power supply to the DC power input terminal. Ensure the polarity is correct.
- Speaker Connection:**
 - Connect your left and right channel speakers to the 'Left Channel' and 'Right Channel' output terminals.
 - Connect your subwoofer to the 'Subwoofer' output terminal.
 - Ensure speaker impedance is compatible (typically 4Ω or 8Ω). Refer to the 'Specifications' section for power output details based on impedance.
- Audio Input:** Choose your desired audio input method:
 - Bluetooth Input:** The board will automatically enter Bluetooth pairing mode upon power-on.
 - USB Input:** Connect a USB drive containing audio files to the USB input port.

- **AUX Input:** Connect an audio source (e.g., smartphone, PC) using a 3.5mm audio cable to the AUX input port.

4. **Initial Control Settings:** Before playing audio, set the 'Main Volume Control', 'R&L Treble', 'R&L Bass', 'Subwoofer Volume', and 'Subwoofer Frequency' knobs to their minimum positions to avoid sudden loud sounds.



Image: The amplifier board illustrating its Bluetooth, 3.5mm AUX, and USB input options, compatible with various devices.

OPERATING INSTRUCTIONS

Once the board is set up, follow these steps for operation:

1. **Power On/Off:** Long press the 'Main Volume Control' knob to switch the amplifier board on or off.
2. **Input Mode Selection:** Short press the 'Main Volume Control' knob to cycle through input modes (Bluetooth, USB, AUX).
3. **Bluetooth Pairing:**
 - When powered on, the board automatically enters Bluetooth pairing mode.
 - On your device (e.g., smartphone), search for Bluetooth devices and select 'YS-S100L' to connect. No password is required.
 - The Bluetooth connection range is up to 16.4 feet (5 meters).
4. **Volume Adjustment:** Rotate the 'Main Volume Control' knob clockwise to increase volume and counter-clockwise to decrease it.
5. **Tone Control:**
 - Adjust the 'R&L Treble' knob to control the high frequencies of the stereo channels.
 - Adjust the 'R&L Bass' knob to control the low frequencies of the stereo channels.
6. **Subwoofer Control:**
 - Adjust the 'Subwoofer Volume' knob to control the output level of the subwoofer.
 - Adjust the 'Subwoofer Frequency' knob (20-200Hz) to set the crossover frequency for the subwoofer.

2.1 Channel Bluetooth Amplifier Board



AUX



Bluetooth



USB



Speaker



Moible Phone



MP3



PC



Speaker

Image: The amplifier board showcasing its compatibility with AUX, Bluetooth, USB inputs, and speaker outputs.

5.1 Bluetooth Connection within 16.4 Feet



Image: An illustration demonstrating the Bluetooth 5.1 connection range of up to 16.4 feet (5 meters) for the amplifier board.

MAINTENANCE

To ensure the longevity and optimal performance of your amplifier board, consider the following maintenance tips:

- **Cleaning:** Gently wipe the board with a dry, soft cloth to remove dust. Avoid using liquid cleaners or solvents.
- **Environment:** Keep the board in a dry, well-ventilated area, away from direct sunlight, high temperatures, and humidity.
- **Static Electricity:** Handle the board with care, especially when installing or adjusting components, to avoid damage from static discharge.
- **Power Off:** Always disconnect the power supply before performing any maintenance or making changes to connections.

TROUBLESHOOTING

If you encounter issues with your Daakro YS-S100L amplifier board, refer to the following common problems and

solutions:

• **No Power:**

- Ensure the DC power supply is correctly connected and providing 9-24V.
- Check if the power adapter is functional.
- Verify that the 'Main Volume Control' knob has been long-pressed to turn on the device.

• **No Sound Output:**

- Check all speaker connections for proper polarity and secure fit.
- Ensure the volume knobs (Main, Subwoofer) are not set to minimum.
- Confirm the correct input mode (Bluetooth, USB, AUX) is selected.
- If using AUX, ensure the audio cable is fully inserted and functional.
- If using Bluetooth, ensure your device is paired and playing audio.

• **Bluetooth Connection Issues:**

- Ensure the amplifier board is in Bluetooth mode.
- Move your device closer to the amplifier board to ensure it's within the 16.4ft range.
- Turn off and on the Bluetooth function on your device and the amplifier board.
- Disconnect any other Bluetooth devices from your audio source.

• **Distorted Sound:**

- Reduce the input volume from your audio source.
- Check speaker impedance compatibility.
- Ensure the power supply provides sufficient current for the desired output power. Insufficient power can lead to distortion at higher volumes.

SPECIFICATIONS

Feature	Detail
Model	YS-S100L
Brand	Daakro
Channels	2.1 (Left, Right, Subwoofer)
Output Power	50W + 50W (R&L Channels) + 100W (Subwoofer)
Input Voltage	DC 9-24V
Input Methods	Bluetooth, USB, AUX
Bluetooth Version	5.1
Bluetooth Range	Up to 16.4 feet (5 meters)
Controls	Main Volume, R&L Treble, R&L Bass, Subwoofer Volume, Subwoofer Frequency (20-200Hz)

Feature	Detail
Dimensions (L x W x H)	6.1 x 3.7 x 1.97 inches
Mounting Type	Freestanding

Power Output Comparison Table

Power Output Comparison Table		
Input Voltage	R&L Channel Output	
	Speaker Impedance	Output Power
12V	4Ω	30W
	8Ω	15W
19V	4Ω	40W
	8Ω	20W
24V	4Ω	50W
	8Ω	30W

Input Voltage	Subwoofer Output	
	Speaker Impedance	Output Power
12V	4Ω	35W
	8Ω	20W
19V	4Ω	60W
	8Ω	35W
24V	4Ω	100W
	8Ω	50W

Image: Table detailing the power output for R&L channels and subwoofer based on input voltage and speaker impedance.

Input Voltage	R&L Channel Output		Subwoofer Output	
	Speaker Impedance	Output Power	Speaker Impedance	Output Power
12V	4Ω	30W	4Ω	35W
	8Ω	15W	8Ω	20W

Input Voltage	R&L Channel Output		Subwoofer Output	
	Speaker Impedance	Output Power	Speaker Impedance	Output Power
19V	4Ω	40W	4Ω	60W
	8Ω	20W	8Ω	35W
24V	4Ω	50W	4Ω	100W
	8Ω	30W	8Ω	50W

Note: Sufficient voltage and current input are required for optimal power output. Higher voltage and current input result in higher power output. Under the same conditions, a smaller speaker impedance yields greater power.

WARRANTY AND SUPPORT

Daakro is committed to providing quality products and customer satisfaction.

- **Warranty:** This product comes with a 30-day warranty from the date of purchase.
- **Customer Service:** For any questions, technical assistance, or support, please contact our customer service. We offer 24-hour online customer service.