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Dayton Audio DTA-2.1BT2

Dayton Audio DTA-2.1BT2 2.1 Channel Amplifier User Manual

Model: DTA-2.1BT2

Introduction

Thank you for choosing the Dayton Audio DTA-2.1BT2 Bluetooth 5.0 Stereo Audio 2.1 Channel Amplifier Receiver. This mini Hi-Fi Class D integrated amplifier is designed to provide ultra-efficient, clean power for your home speakers and passive subwoofer. Its compact size and versatile features make it ideal for various audio setups, from office desktops to small home theater systems. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your amplifier.

Key Features

- Bluetooth 5.0 for wireless audio streaming.
- Class D amplifier topology for high efficiency and clean power.
- 2.1 Channel output: 100W for stereo speakers and 100W for a passive subwoofer.
- Dedicated subwoofer output with adjustable crossover frequency.
- Front panel controls for subwoofer level, tone adjustment, and master volume.
- Multiple input options: Bluetooth, 3.5mm AUX, and RCA AUX.
- Durable metal casing for enhanced heat dissipation and longevity.

Package Contents



Image: Contents of the Dayton Audio DTA-2.1BT2 package, including the amplifier unit, power adapter, and Bluetooth antenna.

- Dayton Audio DTA-2.1BT2 Amplifier
- 24VDC Power Supply
- Bluetooth Antenna
- User Manual (This Document)

Controls and Connections

Front Panel

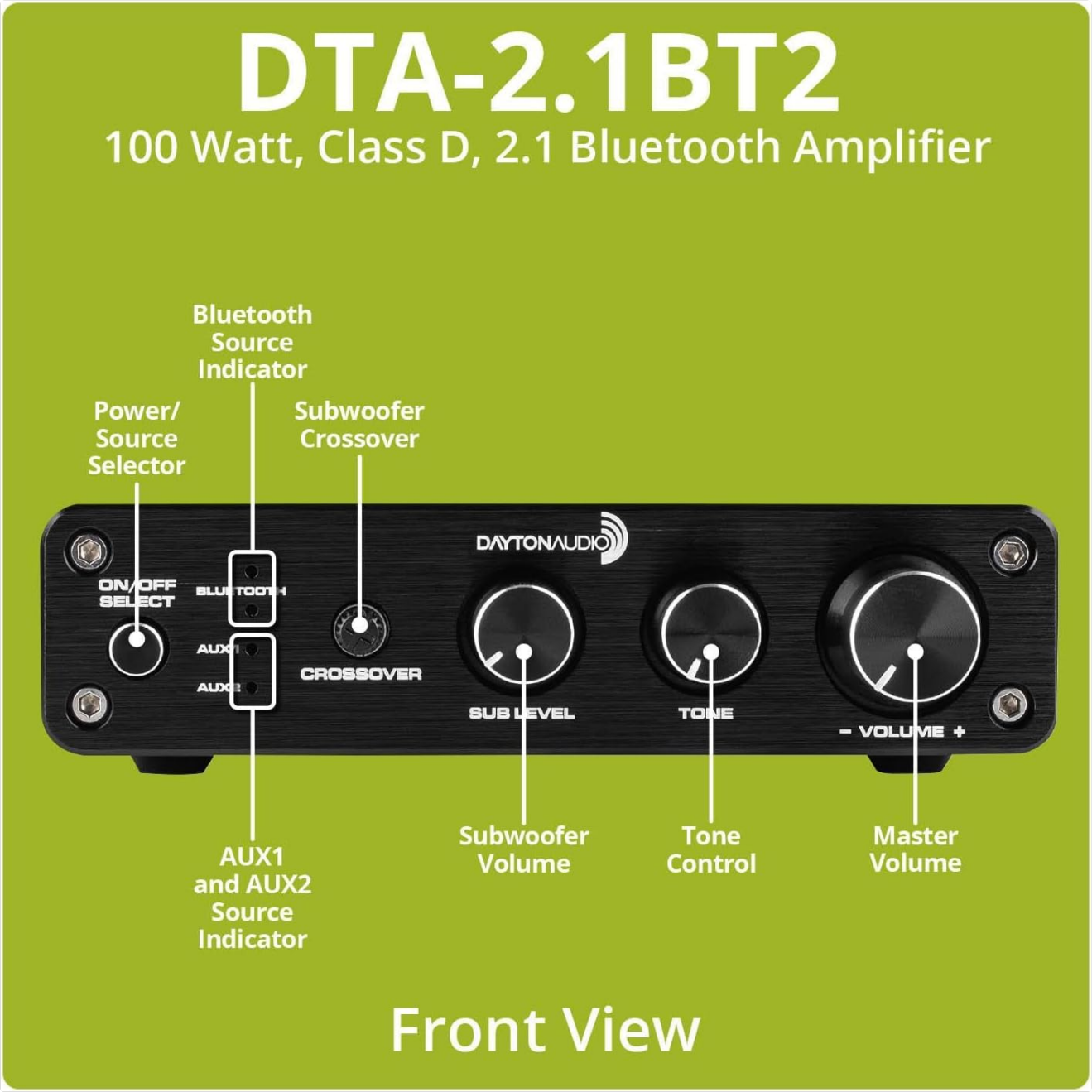


Image: Detailed front view of the DTA-2.1BT2 amplifier, highlighting the Power/Source Selector, Bluetooth indicator, AUX1/AUX2 indicators, Crossover knob, Sub Level knob, Tone knob, and Master Volume knob.

- **ON/OFF SELECT Button:** Press to power on/off. Short press to cycle through input sources (Bluetooth, AUX1, AUX2).
- **Bluetooth Indicator:** Blue LED indicates Bluetooth mode. Blinks when pairing, solid when connected.
- **AUX1 Indicator:** Green LED indicates 3.5mm AUX input selected.

- **AUX2 Indicator:** Red LED indicates RCA AUX input selected.
- **Crossover Knob:** Adjusts the low-pass filter frequency for the subwoofer output.
- **Sub Level Knob:** Controls the volume level of the connected passive subwoofer.
- **Tone Knob:** Adjusts the overall tonal balance (bass/treble) of the audio output.
- **Volume Knob:** Controls the master volume level for all outputs.

Rear Panel

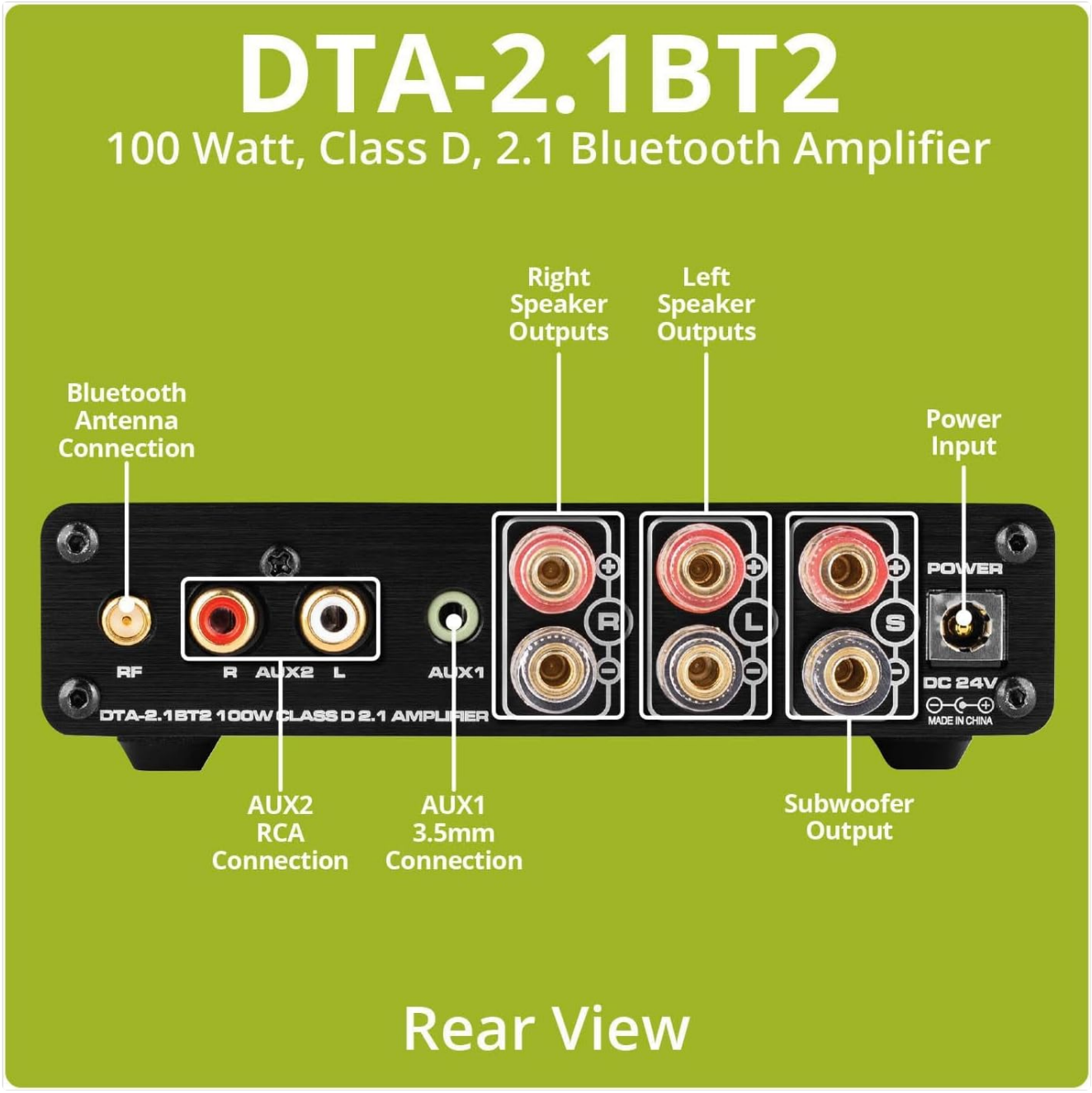


Image: Detailed rear view of the DTA-2.1BT2 amplifier, showing the Bluetooth Antenna Connection, AUX2 RCA Connection, AUX1 3.5mm Connection, Right Speaker Outputs, Left Speaker Outputs, Subwoofer Output, and Power Input.

- **Bluetooth Antenna Connection (RF):** Connect the included Bluetooth antenna here.
- **AUX2 RCA Connection (R/L):** Connect audio sources using RCA cables.
- **AUX1 3.5mm Connection:** Connect audio sources using a 3.5mm stereo cable.
- **Right Speaker Output (R):** Connect your passive right speaker.
- **Left Speaker Output (L):** Connect your passive left speaker.
- **Subwoofer Output (S):** Connect your passive subwoofer.

- **Power Input (DC 24V):** Connect the included 24VDC power supply.

Setup Guide

Connecting Speakers

1. Ensure the amplifier is powered off and unplugged.
2. Connect your passive stereo speakers to the Left (L) and Right (R) speaker output terminals on the rear panel. Ensure correct polarity (+ to + and - to -).

Connecting Subwoofer

1. Connect your passive subwoofer to the Subwoofer Output (S) terminals on the rear panel. Observe correct polarity.

Connecting Audio Sources

- **3.5mm AUX:** Connect your audio device (e.g., smartphone, computer) to the AUX1 3.5mm input using a 3.5mm stereo audio cable.
- **RCA AUX:** Connect your audio device (e.g., CD player, TV) to the AUX2 RCA inputs using RCA audio cables.
- **Bluetooth:** Ensure the Bluetooth antenna is securely connected to the RF terminal.

Power Connection

1. Connect the included 24VDC power supply to the Power Input on the rear panel.
2. Plug the power supply into a suitable wall outlet.

Operating Instructions

Power On/Off and Source Selection

- To power on the amplifier, press the ON/OFF SELECT button. The corresponding input indicator LED will light up.
- To power off, press and hold the ON/OFF SELECT button for a few seconds until the indicators turn off.
- To switch between input sources (Bluetooth, AUX1, AUX2), short press the ON/OFF SELECT button. The active source's LED will illuminate.

Bluetooth Pairing

1. Select Bluetooth as the input source by pressing the ON/OFF SELECT button until the Bluetooth indicator (blue LED) blinks. This indicates pairing mode.
2. On your audio device (e.g., smartphone, tablet), enable Bluetooth and search for available devices.
3. Select "Dayton Audio DTA-2.1BT2" from the list of devices.
4. Once connected, the Bluetooth indicator will become solid blue. You can now stream audio wirelessly.

Volume and Tone Adjustment

- **Master Volume:** Rotate the large VOLUME knob to adjust the overall output volume.
- **Sub Level:** Use the SUB LEVEL knob to independently adjust the volume of the connected subwoofer.
- **Tone:** Rotate the TONE knob to adjust the bass and treble response of your speakers.

Subwoofer Crossover Adjustment

- The CROSSOVER knob allows you to set the frequency at which audio signals are sent to the subwoofer. Adjust this to blend the subwoofer's output seamlessly with your main speakers. A common starting point is 80Hz, but optimal setting depends on your speakers and room acoustics.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the amplifier's exterior. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure adequate ventilation around the amplifier to prevent overheating. Do not block ventilation openings.
- **Storage:** When not in use for extended periods, store the amplifier in a cool, dry place away from direct sunlight and extreme temperatures.
- **Power:** Always unplug the amplifier from the power outlet before cleaning or performing any maintenance.

Troubleshooting

Problem	Possible Cause	Solution
No power	Power cable not connected; Power outlet not active; Amplifier not turned on.	Check power connections; Try a different outlet; Press the ON/OFF SELECT button.
No sound	Incorrect input source selected; Volume too low; Speaker/subwoofer cables loose or incorrect polarity; Audio source issue.	Cycle through input sources; Increase volume; Check all cable connections and polarity; Test audio source with another device.
Bluetooth not connecting	Amplifier not in pairing mode; Device Bluetooth off; Already connected to another device.	Ensure Bluetooth indicator is blinking; Enable Bluetooth on your device; Disconnect from other devices and try again.
Distorted sound	Volume too high; Input signal too strong; Speaker impedance mismatch.	Reduce volume; Check audio source output level; Ensure speakers are within recommended impedance range.
Humming or buzzing noise	Ground loop issue; Interference from other electronics; Loose connections.	Try a ground loop isolator; Move amplifier away from other electronics; Check all audio and power connections.

Specifications

Feature	Specification
Model	DTA-2.1BT2
Channels	2.1 (Stereo + Subwoofer)
Output Power	100W (Stereo) + 100W (Subwoofer)
Bluetooth Version	5.0
Inputs	3.5mm AUX, RCA AUX, Bluetooth
Outputs	Stereo Speaker Terminals, Passive Subwoofer Terminal
Power Supply	24VDC (Included)
Dimensions (L x W x H)	12 x 10 x 3 inches
Weight	2.78 pounds
Casing Material	Durable Metal

Warranty and Support

Dayton Audio products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official Dayton Audio website. If you encounter any issues or require technical assistance, please contact Dayton Audio customer support through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.

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