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› Fanmusic Topping PA5 II Speaker Amplifier User Manual

Fanmusic PA5 II

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Model: PA5 II
Brand: Fanmusic

INTRODUCTION

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Fanmusic Topping PA5 II Speaker Amplifier. The PA5 II is a compact desktop amplifier designed for high-fidelity audio reproduction, featuring a fully balanced structure and an innovative Class D amplifier circuit for low distortion and high power output. Please read this manual thoroughly before using the device to ensure optimal performance and safety.

SAFETY INFORMATION

- Do not expose this device to rain, moisture, dripping, or splashing.
- Do not place objects filled with liquids, such as vases, on the device.
- Ensure proper ventilation. Do not block any ventilation openings.
- Use only the power adapter specified for this device.
- Do not open the casing. Refer all servicing to qualified personnel.
- Disconnect the power supply during lightning storms or when unused for long periods.
- Avoid placing the device near heat sources or in direct sunlight.

PACKAGE CONTENTS

Please check that all items are present in the package:

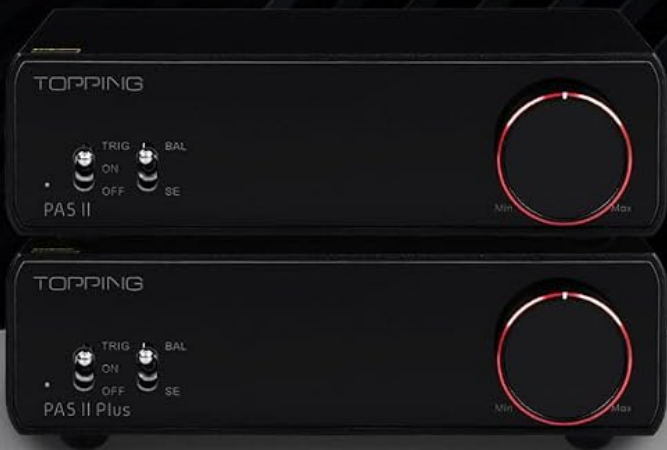
- Topping PA5 II Speaker Amplifier
- Power Adapter (DC38V/3.0A)
- User Manual (this document)
- Warranty Card (if applicable)

PRODUCT OVERVIEW

The Topping PA5 II features a minimalist design with essential controls and comprehensive connectivity options.

Front Panel

Back to the future
PA5 II Series
Compact desktop amplifier



<0.0003%

THD+N @8Ω 5W

TRS/RCA

PA5 II Plus 140W x2
PA5 II 100W x 2

THD+N<10% @4Ω

Fully balanced

124dB

SNR

12V Trigger

Input

Balanced amplifier

Linkage switch

Image: Front and rear view of the Topping PA5 II amplifier. The front panel shows the volume knob and input selection switch.

- **Volume Knob:** Analog potentiometer for adjusting output volume.
- **Input Selector:** Switch between SE (RCA) and BAL (TRS) inputs.
- **Power/Status LED:** Indicates power status and operational mode.

Rear Panel

THD+N as low as an excellent DAC

The distortion of PA5 II and PA5 II Plus is already as good as the DAC.

When outputting 5W under a 4 Ω load, THD+N<0.0004%; When outputting 5W under an 8 Ω load, THD+N <0.0003%. The extremely low distortion level takes your music experience to the next level.

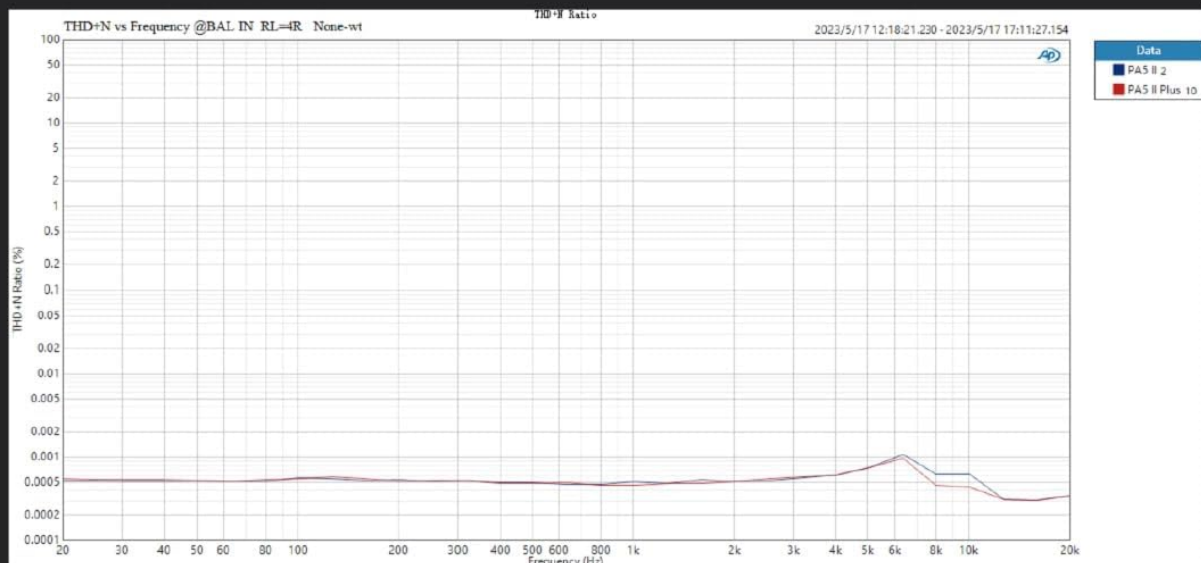


Image: Rear panel of the Topping PA5 II amplifier, showing speaker terminals, RCA inputs, TRS balanced inputs, DC power input, and trigger input.

- **Speaker Terminals (BTL):** Connect your passive speakers. Ensure correct polarity.
- **SE (RCA L+R) Inputs:** Unbalanced stereo audio input.
- **BAL (TRS L+R) Inputs:** Balanced stereo audio input for reduced noise interference.
- **DC 38V Power Input:** Connect the provided power adapter.
- **12V Trigger Input/Output:** For synchronized power on/off with other compatible devices.

Setup

1. **Placement:** Place the PA5 II on a stable, flat surface with adequate ventilation. Avoid placing it near heat sources or in direct sunlight.
2. **Connect Speakers:** Connect your passive speakers to the speaker terminals on the rear panel. Ensure that the positive (+) and negative (-) terminals on the amplifier match those on your speakers.
3. **Connect Audio Source:**
 - For unbalanced sources, connect an RCA cable from your audio source (e.g., DAC, preamplifier) to the SE (RCA L+R) inputs.
 - For balanced sources, connect TRS cables from your audio source to the BAL (TRS L+R) inputs.
4. **Connect Power:** Connect the provided DC38V/3.0A power adapter to the DC 38V input on the rear panel, then plug the adapter into a suitable power outlet.
5. **Optional 12V Trigger:** If using with other compatible equipment, connect a 12V trigger cable to synchronize power on/off.

Important: Ensure all connections are secure before powering on the device.

Operating Instructions

1. **Power On/Off:** The device can be powered on or off manually via the front panel switch or automatically via the 12V trigger signal if connected.
2. **Select Input:** Use the input selector switch on the front panel to choose between the SE (RCA) or BAL (TRS) input.
3. **Adjust Volume:** Turn the analog potentiometer volume knob on the front panel clockwise to increase volume and counter-clockwise to decrease it. Start with a low volume setting before playing audio.
4. **Status Indicator:** The white LED on the front panel indicates the operational status of the amplifier.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that the ventilation openings are not obstructed to prevent overheating.
- **Storage:** If storing the device for an extended period, disconnect it from the power supply and store it in a cool, dry place.

Troubleshooting

If you encounter issues with your PA5 II amplifier, please refer to the following common solutions:

Problem	Possible Cause	Solution
No sound output	Power not connected or turned on. Incorrect input selected. Speaker cables loose or incorrectly connected. Volume too low. Audio source issue.	Check power connection and power switch. Verify the correct input (SE or BAL) is selected. Ensure speaker cables are securely connected with correct polarity. Increase volume gradually. Test with a different audio source.

Problem	Possible Cause	Solution
Distorted or poor sound quality	Loose or faulty audio cables.	Check and replace audio cables if necessary.
	Input signal too strong (clipping).	Reduce the output level from your audio source.
	Speaker impedance mismatch.	Ensure speakers are within the recommended impedance range.
	Environmental interference.	Relocate the amplifier away from potential interference sources.
No power	Power adapter not connected or faulty.	Check power adapter connection and try a different outlet.
	Power outlet issue.	Test the outlet with another device.
	Internal protection activated.	Disconnect power, wait a few minutes, then reconnect. If the issue persists, contact support.

The PA5 II features comprehensive circuit protection against overvoltage, undervoltage, short circuit, overcurrent, and overheating. If the device shuts down unexpectedly, these protections may have been activated. Disconnect power, allow the unit to cool, and check for any obvious issues before reconnecting.



Image: Close-up of the rear panel showing the DC 38V power input and audio inputs, illustrating the robust design that includes comprehensive circuit protection.

SPECIFICATIONS

Feature	Specification
Model	PA5 II

Feature	Specification
Dimensions (L x W x H)	16.6 cm x 12.9 cm x 4.1 cm (approx. 6.54 x 5.08 x 1.61 inches)
Weight	680 g (1.5 pounds)
Power Input	DC38V/3.0A (2-pin aviation connector)
Signal Inputs	SE (RCA L+R), BAL (TRS L+R)
Signal Output	Speaker terminal (BTL)
Output Power (PA5 II)	100W x 2 (4-ohm load, 1% THD)
Output Power (PA5 II Plus)	125W x 2 (4-ohm load, 1% THD); 140W x 2 (4-ohm load, 10% THD)
THD+N (5W, 4Ω load)	<0.0004%
THD+N (5W, 8Ω load)	<0.0003%
Power On & Off	Manual / Trigger signal
Volume Control	Analog Potentiometer
Display	White LED
Standby Power Consumption	<0.5W
Compliance	FCC

Performance Graphs

Excellent match

The E50 DAC has pre-amplifier function and has the same design language as the PA5 II series amplifiers. The TRS balanced transmission between the DAC and amplifier ensures high fidelity transmission without fear of ground loop interference and environmental interference, bringing the PA5 II and speaker performance to its fullest potential.



Image: Graph showing Total Harmonic Distortion + Noise (THD+N) versus frequency for both PA5 II and PA5 II Plus models, demonstrating very low distortion levels.

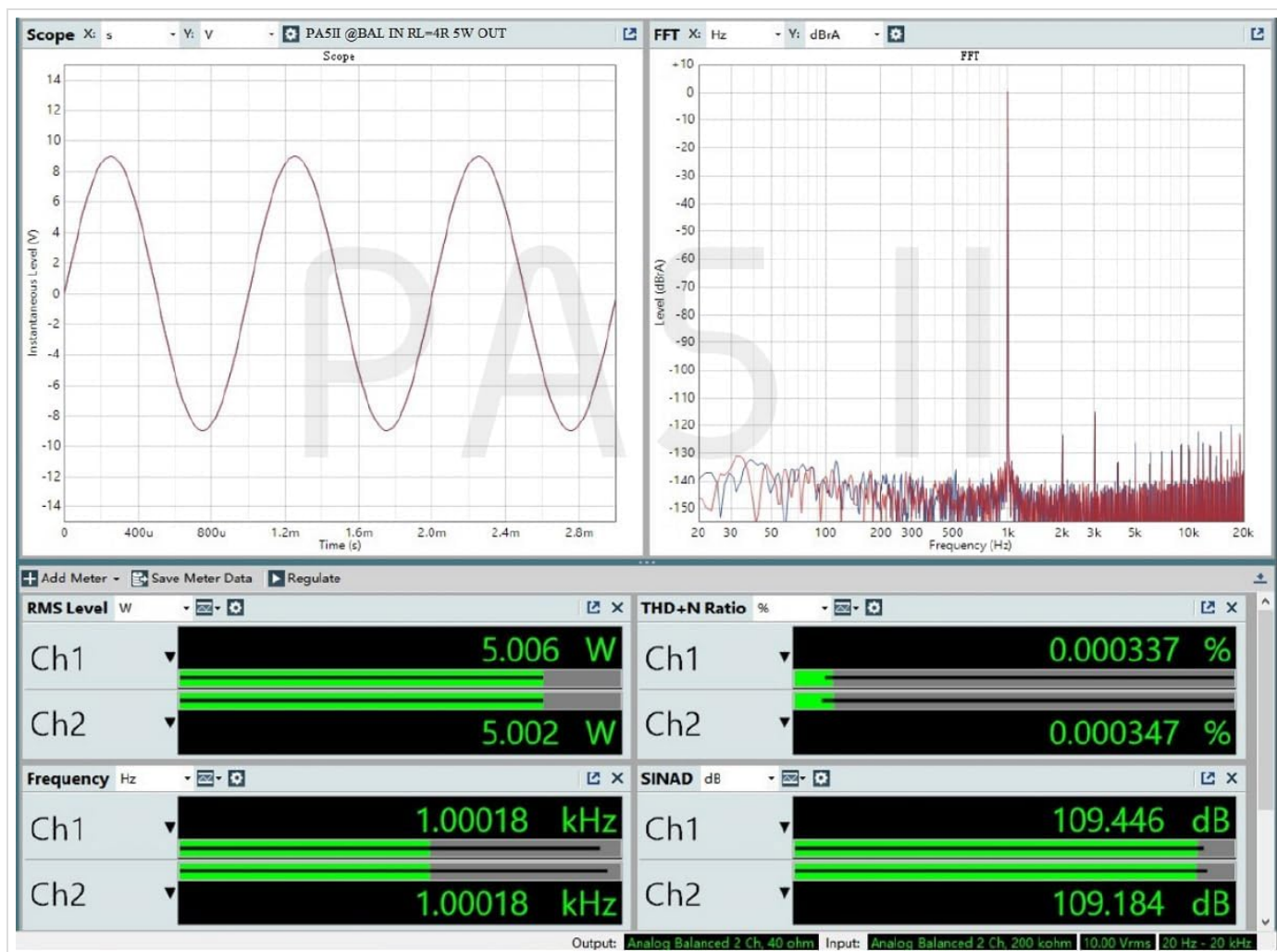


Image: Detailed measurement results showing instantaneous level, FFT spectrum, RMS power, THD+N ratio, and SINAD for the PA5 II at 5W output into an 8 Ohm load.

SYSTEM INTEGRATION

The Topping PA5 II amplifier is designed to integrate seamlessly with other high-fidelity audio components, such as DACs and headphone amplifiers, to create a comprehensive audio system.

Pairing with D10 Balanced DAC

The D10 Balanced DAC is an ideal partner, providing high-fidelity USB decoding and TRS balanced output. This combination effectively adds a high-performance USB input to your PA5 II, offering a concise and efficient setup for USB audio sources.

Meet all needs

When you need a more comprehensive system, we recommend the combination of PA5 II series power amplifiers, E50 DAC and L50 Headphone amplifier. This way, there are corresponding devices from the digital audio source to the speaker and headphones.



Image: The Topping PA5 II amplifier shown stacked with a Topping E50 DAC, demonstrating a compact and integrated audio setup.

Comprehensive Audio System

For a more comprehensive system, consider combining the PA5 II with an E50 DAC and an L50 Headphone amplifier. This setup provides a complete digital audio chain from source to speakers and headphones.

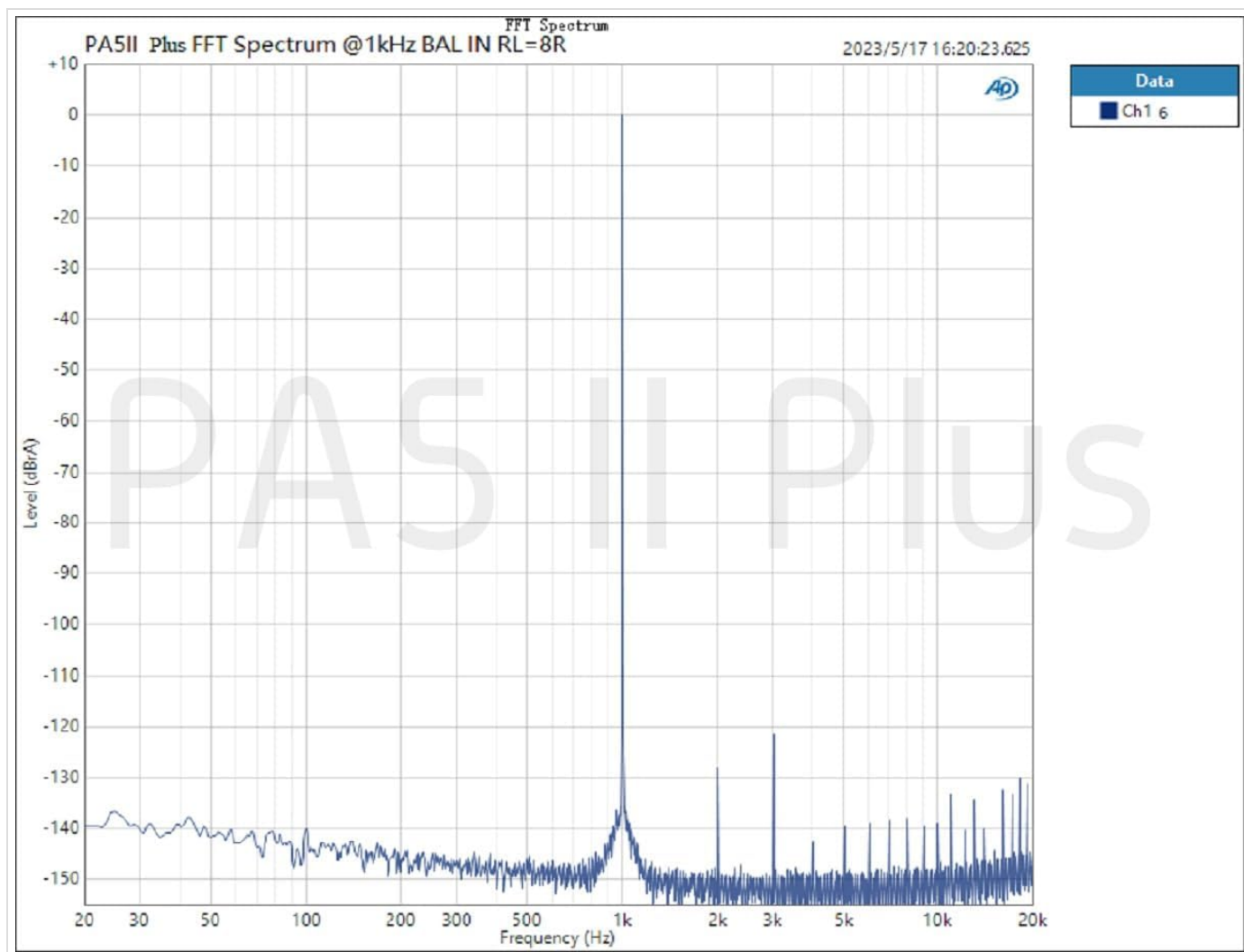


Image: A complete stacked audio system featuring the Topping PA5 II amplifier, E50 DAC, and L50 Headphone Amplifier, illustrating a full-link high-fidelity solution.

WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or the terms and conditions provided by your retailer at the time of purchase. For technical support or service inquiries, please contact Fanmusic customer service or your authorized dealer.

Brand: Fanmusic

Manufacturer: TOPPING PA5 II