

Nobsound NS-04G PRO

Nobsound Mini Dual TPA3116 Digital Power Amplifier NS-04G PRO Instruction Manual

Model: NS-04G PRO

1. INTRODUCTION

This manual provides detailed instructions for the Nobsound Mini Dual TPA3116 Digital Power Amplifier NS-04G PRO. This compact, high-fidelity stereo amplifier is designed to deliver clear and powerful audio for various home and office audio systems. Please read this manual thoroughly before use to ensure proper setup and operation.



Figure 1: Nobsound Mini Dual TPA3116 Digital Power Amplifier NS-04G PRO (Front View)

2. PRODUCT FEATURES

- **Advanced Audio Circuitry:** Features dual TPA3116 IC chips for Class D amplification, delivering up to 100W+100W (4Ω load) output power.

- **Integrated Preamplification:** Includes a built-in preamplification circuit with NE5532 op-amp for ultra-low distortion and dynamic balance, suitable for low-signal audio sources.
- **Wide Compatibility:** Equipped with standard stereo RCA audio input, compatible with various devices such as phones, TVs, MP3 players, CD players, DACs, and computers.
- **Robust Construction:** Housed in a durable aluminum alloy black case, offering a sleek appearance and effective heat dissipation.
- **Safety Features:** Designed with a reasonable circuit layout and protection mechanisms to prevent sparks and electrical shock during power-on/off.
- **Optimized Components:** Utilizes high-speed stepless coupling capacitors and large capacity solid capacitors for efficient power delivery and extended service life.



Max output power 100W+100W

Adopting classical TPA3116 IC chip in each channel, class D amplification, the max output power can reach 100W+100W(4Ω load), easily to drive all home bookshelf/ computer/ desktop/floor-standing/outdoor passive speakers.

Figure 2: Dual TPA3116D2 chips for 100W+100W maximum output power.



Reasonable circuit and perfect protection

Reasonable circuit, concise wiring layout and perfect protection, no sparks no shock. Adopting NE5532 op amp with ultra-low distortion and dynamic balanced, the sound is very smooth and natural, powerful in low frequency and delicate in high frequency, full of music styles.

Figure 3: Internal view highlighting reasonable circuit design and protection features.

3. PACKAGE CONTENTS

Please check the package for the following items:

- 1 x Nobsound Mini Dual TPA3116 Digital Power Amplifier NS-04G PRO
- 1 x Instruction Manual

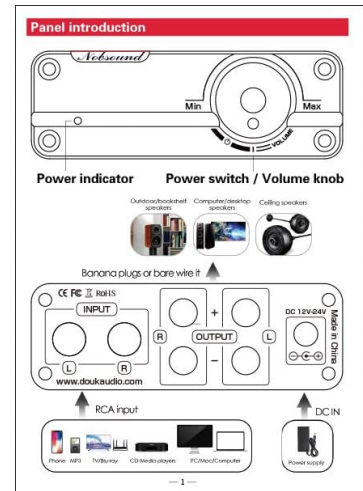
Note: A DC 12V-24V power supply is NOT included and must be purchased separately.

PACKING LIST

Net Weight: 252g/0.56lb

Package Weight: 400g/0.88lb

Without power supply



1 × NS-04G PRO Amplifier

1 × Manual

Figure 4: Package contents and amplifier dimensions.

4. PRODUCT OVERVIEW

4.1 Front Panel

- **Power Indicator:** Illuminates when the amplifier is powered on.
- **Power Switch / Volume Knob:** Rotates to adjust volume (Min to Max) and can be pressed to power the unit on or off.

4.2 Rear Panel

- **RCA Input (L/R):** Connects to audio sources via RCA cables.
- **Speaker Output (+/-):** Connects to passive speakers via banana plugs or bare wire.
- **DC 12V-24V Input:** Connects to an external DC power adapter (not included).



Figure 5: Front and rear panel connections and controls.

5. SETUP INSTRUCTIONS

Follow these steps to set up your Nobsound amplifier:

1. **Connect Speakers:** Connect your passive speakers to the speaker output terminals on the rear panel. Ensure correct polarity (+ to + and - to -) for each channel (Left and Right). The terminals support banana plugs or bare wire.
2. **Connect Audio Source:** Connect your audio source (e.g., phone, TV, CD player) to the RCA input jacks on the rear panel using an RCA cable. Ensure the Left (white) and Right (red) channels are correctly matched.
3. **Connect Power Supply:** Connect a compatible DC 12V-24V power adapter (not included) to the DC input jack on the rear panel.



With standard stereo RCA audio input

Perfectly compatible with many audio devices such as phone, TV, MP3 players, CD players, DAC, computers etc.. With built-in preamplification circuit, can match well with audio source that with low signal output.

Figure 6: Detailed view of the stereo L/R RCA input.

Your browser does not support the video tag.

Video 1: Demonstration of connecting the Nobsound Mini Amplifier to speakers and an audio source.

6. OPERATING INSTRUCTIONS

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

1. **Power On:** Press the volume knob to turn on the amplifier. The power indicator light will illuminate.
2. **Adjust Volume:** Rotate the volume knob clockwise to increase the volume and counter-clockwise to decrease it. Start with the volume at a low setting before playing audio.
3. **Play Audio:** Start playing audio from your connected source.
4. **Power Off:** Press the volume knob again to turn off the amplifier. The power indicator light will turn off.

Your browser does not support the video tag.

Video 2: Overview of the Nobsound NS-04G PRO amplifier, including power and volume control.

7. MAINTENANCE

To ensure the longevity and optimal performance of your amplifier, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Avoid using liquid cleaners or solvents.
- **Placement:** Place the amplifier in a well-ventilated area to prevent overheating. Avoid direct sunlight, heat sources, and excessive moisture.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion.
- **Power Off When Not in Use:** Turn off the amplifier when not in use for extended periods.

8. TROUBLESHOOTING

If you encounter issues with your amplifier, refer to the following table for common problems and solutions:

Problem	Possible Cause	Solution
No power	Power adapter not connected or faulty; power switch off.	Ensure power adapter is securely connected and functional. Press the power switch/volume knob to turn on the unit.
No sound output	Incorrect speaker or audio source connections; volume too low; faulty cables.	Check all speaker and audio input connections for proper seating and polarity. Increase volume. Test with different cables. Ensure audio source is playing.
Distorted sound	Volume too high; poor audio source quality; faulty speakers or cables.	Reduce volume. Test with a different audio source. Check speakers and cables for damage.
Humming or buzzing noise	Ground loop issue; interference from other electronics; loose connections.	Ensure all components are properly grounded. Move amplifier away from other electronic devices. Check all connections.

9. SPECIFICATIONS

Feature	Specification
Model Number	NS-04G PRO
Amplifier Chip	Dual TPA3116D2
Preamplifier Chip	NE5532P
Output Power	100W + 100W (4Ω load)
Channels	2.0 Stereo
Audio Input	Stereo RCA
Power Supply	DC 12V-24V (not included)







Feature	Specification
Dimensions (L x W x H)	Approximately 108mm x 90mm x 35mm (4.25 x 3.54 x 1.37 inches)
Item Weight	13.6 ounces (approx. 385g)
Manufacturer	Nobsound

10. WARRANTY AND SUPPORT

Nobsound products are designed for reliability and performance. For warranty information or technical support, please refer to the documentation included with your purchase or visit the official Nobsound website. Keep your purchase receipt as proof of purchase for any warranty claims.

For further assistance, you may contact Nobsound customer service through their official channels.

Related Documents - NS-04G PRO

	Nobsound HiFi 5.1 Channel Bluetooth Amplifier User Manual This user manual provides instructions and troubleshooting tips for the Nobsound HiFi 5.1 Channel Bluetooth Amplifier, covering setup, operation, and common issues.
	Nobsound NS-13G/NS-15G/NS-15G PRO Digital Amplifier User Manual and Specifications Detailed user manual and technical specifications for Nobsound NS-13G, NS-15G, and NS-15G PRO digital HiFi stereo audio amplifiers. Includes setup, operation, troubleshooting tips, and contact information.
	Nobsound G2 and G2 PRO Amplifier Manual User manual for Nobsound G2 and G2 PRO Hi-Fi audio amplifiers, detailing front and back panel connections and features.
	Nobsound Q1 HiFi Bluetooth Digital Amplifier User Manual - Setup and Operation Guide Comprehensive user manual for the Nobsound Q1 HiFi Bluetooth 5.0 Digital Amplifier. Learn how to connect speakers, select inputs, and operate the device safely.
	Nobsound NS-03G 100W Mono Channel Amplifier: User Guide and Specifications Comprehensive guide for the Nobsound NS-03G 100W Mono Channel Subwoofer and Full Frequency Power Amplifier, including setup instructions, technical parameters, and troubleshooting tips.
	Nobsound M08E: Compact FM Tuner, Preamplifier, and Headphone Amplifier User Manual Detailed user guide for the Nobsound M08E, a versatile all-in-one audio device featuring FM tuning, preamplification, and headphone amplification. Learn about its features, operation, and specifications.