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Nobsound NS-20G

Nobsound NS-20G 200W Mini Digital Power Amplifier User Manual

Model: **NS-20G** | Brand: **Nobsound**

1. Introduction

Thank you for choosing the Nobsound NS-20G Mini Digital Power Amplifier. This compact yet powerful amplifier is designed to deliver clear, high-fidelity audio with versatile connectivity options, including Bluetooth 5.0 and AUX input. It also features a dedicated headphone amplifier and supports a 2.1 channel audio system setup. This manual provides essential information for safe and efficient use of your device.



Image 1.1: The Nobsound NS-20G Mini Digital Power Amplifier, highlighting its key features: 100W+100W high power, Bluetooth 5.0+EDR, Hi-Fi audio, and DSP technology.

2. Safety Information

- Do not expose this device to rain or moisture.
- Ensure proper ventilation to prevent overheating. Do not block ventilation openings.
- Use only the provided power adapter (19V) or a compatible power supply within the specified voltage range (DC 9V-24V).
- Avoid placing the device near heat sources or in direct sunlight.
- Do not disassemble or modify the device. Refer all servicing to qualified personnel.
- Keep out of reach of children.

3. Package Contents

Please check the package for the following items:

- 1 x Nobsound NS-20G Amplifier
- 1 x 19V Power Adapter
- 1 x 3.5mm Audio Cable
- 1 x RCA Audio Cable
- 1 x User Manual



Image 3.1: Contents of the Nobsound NS-20G package, including the amplifier, power supply, and various audio cables. The image also shows the compact dimensions of the amplifier (90mm x 78mm x 23mm) and its net weight of 160g.

4. Product Overview

The NS-20G amplifier features a compact aluminum chassis with a multi-function knob and an LED volume display. It integrates advanced audio technologies for superior sound quality.

4.1 Key Features

- **Compact Design:** Ideal for home and office setups, measuring 90mm x 78mm x 23mm.
- **High Power Output:** Equipped with two TPA3116 chips, delivering up to 200W (100W x 2) output.
- **HiFi Sound:** Provides clear audio with no audible noise, enhanced by Digital Signal Processing (DSP).
- **Bluetooth 5.0 + EDR:** Ensures stable, lossless wireless audio transmission up to 15 meters.
- **Headphone Amplifier:** Supports headphones with impedance between 15-32Ω.

- **Versatile Inputs:** Bluetooth and AUX inputs for various devices like smartphones, TVs, MP3 players, and CD players.
- **2.1 Channel System Support:** Can form a 2.1 audio system by connecting an active subwoofer via Bluetooth and passive speakers to the speaker outputs.
- **Gold-Plated Terminals:** Enhanced corrosion resistance and high-quality signal transmission.

4.2 Front and Rear Panel Layout



Image 4.1: Diagram illustrating the front and rear panels of the NS-20G amplifier, showing all input/output ports and controls.

- **Front Panel:**
  - **Multi-function Knob:** Power ON/OFF, Volume control, Play/Pause.
  - **LED Display:** Shows current volume level (0-31).
  - **AUX Input (3.5mm):** For wired audio sources.
  - **PHONE Output (3.5mm):** Headphone jack.

- **Rear Panel:**
    - **DC 9V-24V IN:** Power input port.
    - **Speaker Outputs (R/L):** For connecting passive speakers.



Image 4.2: Close-up of the multifunction knob for power, volume, and playback control.



Image 4.3: Close-up of the AUX input and PHONE output ports.



Image 4.4: Close-up of the gold-plated speaker terminals for secure connections.



Image 4.5: The NS-20G amplifier demonstrating its compact size, easily held in one hand.



Image 4.6: Explanation of DSP (Digital Signal Processing) and its role in enhancing audio clarity and harmony.

5. Setup

5.1 Connecting Speakers

1. Ensure the amplifier is powered off before making any connections.
2. Connect your passive speakers to the **R** (Right) and **L** (Left) speaker output terminals on the rear panel. Ensure correct polarity (red to red, black to black).

5.2 Connecting Power

1. Connect the provided 19V power adapter to the **DC 9V-24V IN** port on the rear panel.
2. Plug the power adapter into a suitable wall outlet.



Image 5.1: Close-up of the DC 9V-24V power input port on the rear panel.

5.3 Connecting Audio Sources

- **AUX Input:** Use the 3.5mm audio cable to connect your audio source (e.g., smartphone, CD player) to the **AUX** input on the front panel.
- **Bluetooth:** For wireless connection, refer to the Bluetooth pairing instructions in the Operating section.

5.4 2.1 Channel System Setup

To create a 2.1 channel audio system, connect an active subwoofer via Bluetooth and your passive speakers to the amplifier's speaker outputs. This configuration enhances bass effects significantly.



Image 5.2: The NS-20G amplifier connected to speakers, illustrating a typical home audio setup.

6. Operating Instructions

6.1 Power On/Off

- **Power On:** Long press the multi-function knob for 2 seconds. The LED display will light up.
- **Power Off:** Long press the multi-function knob for 2 seconds. The LED display will turn off.
- **Automatic Power On:** The NS-20G automatically powers on when first connected to the power adapter, or after subsequent disconnections and reconnections. To reactivate after a direct power cut, long press the knob after reconnecting the power adapter.

6.2 Volume Control

- Rotate the multi-function knob clockwise to increase volume.
- Rotate the multi-function knob counter-clockwise to decrease volume.

- The volume level (0-31) is shown on the LED display. The display blinks when music is paused.



Image 6.1: The intuitive LED volume display and the multifunction knob for easy volume adjustment.

6.3 Input Selection and Playback

- **Bluetooth Mode:** The amplifier defaults to Bluetooth mode upon power-on. The LED display will indicate Bluetooth readiness.
- **AUX Mode:** When an audio cable is connected to the AUX input, the amplifier automatically switches to AUX mode.
- **Play/Pause:** Short press the multi-function knob to play or pause audio playback (in Bluetooth mode).

6.4 Bluetooth Pairing

1. Ensure the amplifier is in Bluetooth mode (LED display indicates readiness).
2. On your device (smartphone, tablet, etc.), enable Bluetooth and search for available devices.
3. Select "NS-20G" from the list to pair. A confirmation sound will indicate successful pairing.
4. Once paired, you can stream audio wirelessly to the amplifier.



Image 6.2: The NS-20G amplifier wirelessly connected to a smartphone via Bluetooth 5.0.

6.5 Headphone Use

Connect your headphones (15-32Ω impedance) to the **PHONE** output on the front panel. Audio will be routed to the headphones.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Do not use liquid cleaners or solvents.
- **Storage:** When not in use for extended periods, disconnect the power adapter and store the amplifier in a cool, dry place.
- **Ventilation:** Ensure the ventilation holes are free from dust and obstructions to maintain optimal performance and prevent overheating.

8. Troubleshooting

Problem	Possible Cause	Solution
No sound output.	◦ Power not connected or unit off. ◦ Incorrect input selected. ◦ Volume too low. ◦ Speaker cables loose or incorrectly connected. ◦ Audio source issue.	◦ Ensure power adapter is connected and unit is powered on. ◦ Verify correct input (AUX/Bluetooth) is active. ◦ Increase volume using the knob. ◦ Check speaker cable connections and polarity. ◦ Test with a different audio source or cable.
Bluetooth not connecting.	◦ Amplifier not in Bluetooth mode. ◦ Device too far from amplifier. ◦ Interference from other devices. ◦ Bluetooth list full on source device.	◦ Ensure no AUX cable is connected, forcing Bluetooth mode. ◦ Move device closer to the amplifier (within 15m). ◦ Turn off other Bluetooth devices nearby. ◦ Clear Bluetooth pairing history on your source device and try again.
Distorted or poor sound quality.	◦ Volume too high (clipping). ◦ Poor quality audio source or cable. ◦ Speaker impedance mismatch.	◦ Reduce volume on both amplifier and source device. ◦ Try a different audio source or high-quality cable. ◦ Ensure speakers are compatible with the amplifier's output.

9. Specifications

Brand	Nobsound

Model Number	DZ045_DE (NS-20G)
Power Output	200 Watts (100W x 2)
Number of Channels	2
Voltage	19 Volts (DC 9V-24V)
Bluetooth Version	5.0 + EDR
Headphone Impedance	15-32Ω
Dimensions (L x W x H)	90mm x 78mm x 23mm (approx. 3.54 x 3.07 x 0.91 inches)
Weight	610 grams (approx. 1.34 lbs)
Certifications	CE, RoHS

10. Warranty and Support

Nobsound products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the official Nobsound website or contact your retailer.

You can also visit the Nobsound brand store for more information and product updates:Nobsound Brand Store

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