

## Nobsound ST-01 PLUS

# Nobsound Douk Audio ST-01 PLUS HiFi Bluetooth 5.2 TPA3255 Mini Digital Amplifier User Manual

Model: ST-01 PLUS

## 1. INTRODUCTION

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Thank you for purchasing the Nobsound Douk Audio ST-01 PLUS Mini Digital Amplifier. This manual provides detailed instructions for the setup, operation, and maintenance of your new audio device. Please read this manual thoroughly before use to ensure proper functionality and to maximize your listening experience.

## 2. PRODUCT FEATURES

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- **Diverse Inputs and High Compatibility:** The ST-01 PLUS features Bluetooth 5.2, RCA, and MM Phono inputs, offering compatibility with a wide range of audio devices such as turntables, smartphones, computers, tablets, TVs, and CD players. Additionally, a 3.5mm AUX output is included for building 2.1 or multi-channel audio systems.



This image illustrates the versatile connectivity of the ST-01 PLUS amplifier, featuring Bluetooth 5.2, RCA, MM Phono inputs, and 3.5mm AUX output, compatible with turntables, smartphones, computers, and more.

- **High-Quality Audio Components:** Equipped with a TPA3255 amplifier chip, each channel delivers a maximum output of 300W, capable of driving most home passive speakers with excellent sound quality and low distortion. The QCC304X Bluetooth chip supports SBC/APTX/APTX-LL/APTX-HD, ensuring efficient power usage and stable, high-quality, low-latency wireless audio streaming.



Detail view of the high-quality TPA3255 amplifier chip, providing up to 300W output per channel with low distortion, and the QCC304X Bluetooth chip supporting SBC/APTX/APTX-LL/APTX-HD for stable, high-quality wireless audio streaming.

- **Unique and Excellent Combination:** The ST-01 PLUS integrates an amplifier with a VU meter, offering a compact size with a retro aesthetic. The dancing needle in warm light dynamically decorates your audio system and provides a visual aid for real-time sound adjustment.



The integrated VU meter with its warm light and dancing needle dynamically enhances your audio system and provides a visual aid for real-time sound adjustment.

- **User-Friendly Design:** Enjoy customized sound with adjustable bass and treble controls. The ST-01 PLUS also supports clearing Bluetooth pairing records. The VU meter sensitivity is adjustable to suit different input signals. Input selection and indicators clearly display the real-time operating status.



This image demonstrates the user-friendly design of the ST-01 PLUS, featuring adjustable bass and treble controls, Bluetooth pairing reset, VU meter sensitivity adjustment, and input selection with indicators for clear operation status.

- **Attractive Appearance:** Crafted with a slim aluminum alloy shell, the amplifier exudes elegance and strength. Its refined appearance not only enhances visual appeal but also ensures lasting quality, reflecting a perfect blend of form and function in HiFi audio design.



The slim aluminum alloy shell of the ST-01 PLUS offers an elegant and robust appearance, ensuring durability and reflecting a perfect blend of form and function in HiFi audio design.

### 3. PACKAGE CONTENTS

Please check the package for the following items:

- 1x ST-01 PLUS Digital Power Amplifier
- 1x DC 32V/5A Power Adapter
- 1x Bluetooth Antenna



The package includes the ST-01 PLUS digital power amplifier, a DC 32V/5A power adapter, and a Bluetooth antenna.

## 4. SETUP GUIDE

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### 4.1 Connecting Speakers

1. Ensure the amplifier is powered off.
2. Connect your passive speakers to the "SPEAKER OUTPUT" terminals on the rear panel. Ensure correct polarity (+ to + and - to -).

### 4.2 Connecting Audio Sources

The ST-01 PLUS supports multiple input types:

- **RCA Audio Input:** Connect devices like CD players, DACs, or other line-level sources to the "AUDIO INPUT" RCA ports.
- **MM Phono Input:** Connect a turntable with an MM (Moving Magnet) cartridge to the "PHONO INPUT" RCA ports.
- **Bluetooth Input:** For wireless connection, ensure the Bluetooth antenna is securely attached to the rear panel.

### 4.3 Connecting Power

1. Connect the provided DC 32V/5A power adapter to the "DC 24V-48V" input on the rear panel.
2. Plug the power adapter into a suitable wall outlet.



The rear panel features RCA Audio Input, MM Phono Input, 3.5mm AUX Output, Speaker Outputs, and DC 24V-48V Power Input. A Bluetooth antenna port is also visible.

## 5. OPERATING INSTRUCTIONS

### 5.1 Front Panel Controls Overview



Detailed view of the front panel, labeling the Power/Input/Volume knob, Bluetooth indicator, RCA indicator, VU meter, Phono indicator, Bass knob, and Treble knob.

- **Power/Input/Volume Knob:** This multi-function knob controls power (press to turn on/off), input selection (rotate to cycle through inputs), and volume (rotate to adjust).
- **Bluetooth Indicator:** Lights up when Bluetooth input is selected and paired.
- **RCA Indicator:** Lights up when RCA input is selected.
- **Phono Indicator:** Lights up when Phono input is selected.
- **VU Meter:** Visually displays the audio signal level.
- **Bass Knob:** Adjusts the low-frequency response.
- **Treble Knob:** Adjusts the high-frequency response.

### 5.2 Power On/Off

Press the Power/Input/Volume knob to turn the amplifier on or off.

### 5.3 Input Selection

Rotate the Power/Input/Volume knob to cycle through the available inputs: Bluetooth, RCA, and Phono. The corresponding indicator light will illuminate.

## 5.4 Volume Adjustment

Rotate the Power/Input/Volume knob to adjust the master volume. Turn clockwise to increase volume, counter-clockwise to decrease.

## 5.5 Tone Control

Use the Bass and Treble knobs to fine-tune the audio output to your preference. Rotate clockwise to boost, counter-clockwise to cut.

## 5.6 Bluetooth Pairing

1. Select Bluetooth input using the Power/Input/Volume knob. The Bluetooth indicator will flash, indicating it's in pairing mode.
2. On your device (smartphone, tablet, etc.), search for Bluetooth devices and select "ST-01 PLUS".
3. Once paired, the Bluetooth indicator will glow steadily.
4. To clear Bluetooth pairing records, refer to the troubleshooting section or specific instructions provided with the device.

## 6. MAINTENANCE

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- Keep the amplifier in a dry, well-ventilated area, away from direct sunlight, heat sources, and moisture.
- Clean the unit with a soft, dry cloth. Do not use liquid cleaners or abrasive chemicals.
- Ensure all connections are secure and free from dust.
- Avoid blocking the ventilation holes to prevent overheating.

## 7. TROUBLESHOOTING

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- **No Sound:**
  - Check if the power adapter is properly connected and the amplifier is turned on.
  - Verify speaker connections and polarity.
  - Ensure the correct input source is selected.
  - Adjust the volume level on both the amplifier and the source device.
- **Bluetooth Connection Issues:**
  - Ensure the Bluetooth antenna is securely attached.
  - Make sure the amplifier is in Bluetooth input mode (indicator flashing for pairing).
  - Delete "ST-01 PLUS" from your device's Bluetooth list and try pairing again.
  - Move your device closer to the amplifier to ensure a strong signal.
- **Distorted Sound:**
  - Reduce the volume level on both the amplifier and the source device.
  - Check speaker impedance compatibility with the amplifier.
  - Ensure audio cables are fully inserted and not damaged.
- **VU Meter Not Moving:**

- Ensure there is an active audio signal playing.
- Check the VU meter sensitivity setting (if applicable, refer to specific product details for adjustment).

## 8. SPECIFICATIONS

Feature	Specification
Brand	Nobsound
Model Number	ST-01 PLUS
Product Dimensions (LxWxH)	11.5 x 10 x 6 cm
Number of Channels	2
Item Weight	0.67 kg
Country of Origin	China
ASIN	B0DBZJMKCJ

### 8.1 Output Power Table



This table details the rated output power (W+W) of the ST-01 PLUS amplifier based on different power adapter voltages/currents and speaker impedances (4Ω, 6Ω, 8Ω).

## 9. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Nobsound website. For technical support, troubleshooting assistance, or any inquiries, please contact Nobsound customer service through their official channels.

