

DAJUNGUO XY-Y50H

DAJUNGUO XY-Y50H Bluetooth Amplifier Board Instruction Manual

Model: XY-Y50H

1. PRODUCT OVERVIEW

The DAJUNGUO XY-Y50H is a 50W+50W Bluetooth amplifier board featuring the TPA3116D2 chip. It is designed for dual-channel audio output and operates within a DC 9-24V power supply range. This amplifier board includes a remote control for convenient operation and supports multiple audio input methods.

Key Features:

- **TPA3116D2 Chip:** Utilizes TPA3116D2 chips with interference suppression for high-quality sound and low Total Harmonic Distortion (THD) even during prolonged high-power operation.
- **Output Power:** Delivers 50W + 50W output power.
- **Wide Voltage Range:** Operates with a DC 9-24V input voltage.
- **Remote Control:** Includes a remote control for adjusting volume and switching songs.
- **Multiple Input Methods:** Supports Bluetooth, USB Flash Drive, and 3.5mm AUX audio inputs.

TPA3116D2 CHIP 100W+100W APP CONTROL



- Bluetooth Version: 5.1
- Audio Input: Bluetooth+AUX+USB Flash Drive
- Power Supply: DC 9-24V/5A or above
- USB Decoding Format: WAV / FLAC / APE / MP3
- Does It Support APP Control: Yes
- Left and Right Channel Output Power:
 - 2 * 10W @ 8 Ω /12V; 2 * 30W @ 8 Ω /24V
 - 2 * 20W @ 4 Ω /12V; 2 * 50W @ 4 Ω /21V
 - 2 * 70W @ 4 Ω /24V; 2 * 100W @ 2 Ω /21V
- Protection Mechanism: Protection against overvoltage, overcurrent, undervoltage, clipping, short circuit, overheating, etc

Image 1.1: DAJUNGUO XY-Y50H Amplifier Board showing dimensions and key specifications.

2. SETUP INSTRUCTIONS

Follow these steps to correctly set up your XY-Y50H Bluetooth Amplifier Board.

2.1 Component Identification

- 1.Click:Play / Pause
- 2.Two Clicks:Next Song
- 3.Three Clicks:Previous song

- 4.Four Clicks:Switch Mode
- 5.Five Clicks:Factory Reset
- 6.Long press:Power OFF/ON

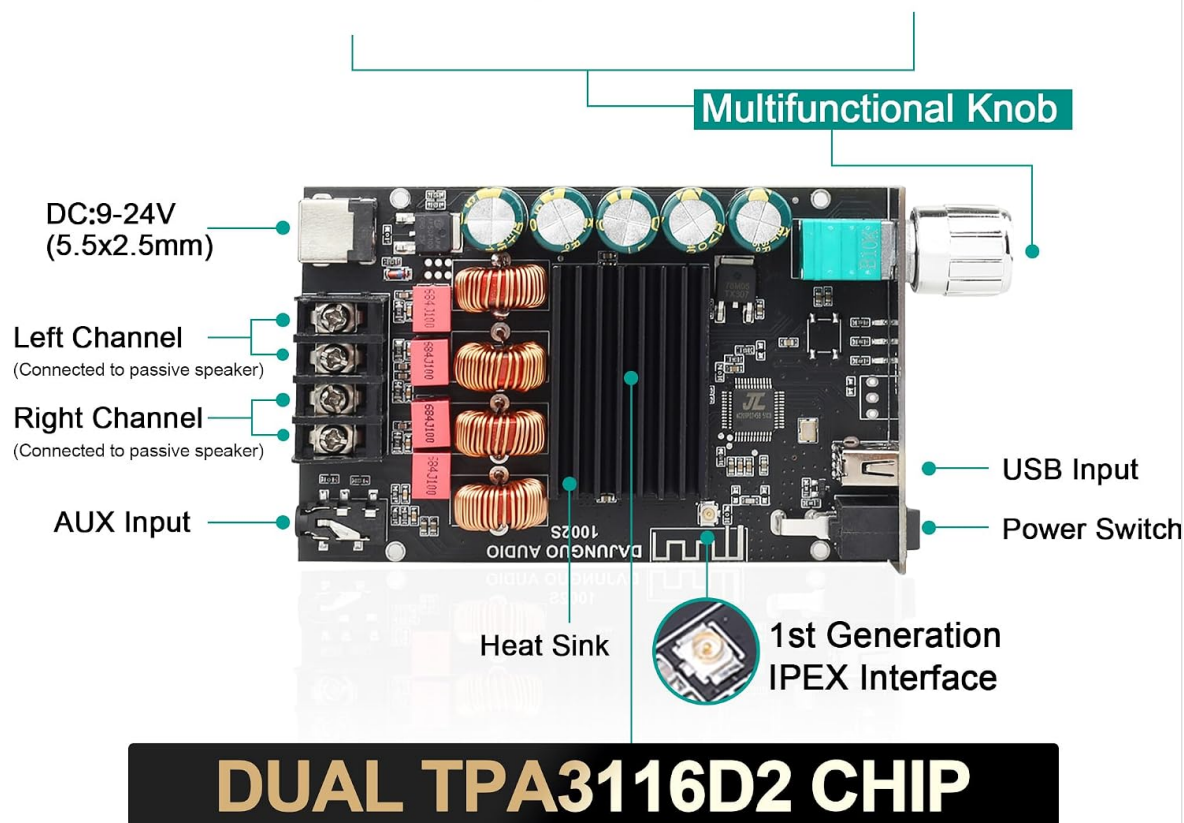


Image 2.1: Detailed view of the XY-Y50H amplifier board, highlighting input/output ports and the multifunctional knob.

2.2 Power Supply Connection

- Connect a DC 9-24V power supply to the DC 9-24V (5.5x2.5mm) input port. A power supply of 5A or above is recommended for optimal performance.
- Ensure the power supply is off before connecting.



Image 2.2: Close-up of the upgraded DC socket (5.5x2.5mm) for power input.

2.3 Speaker Connection

- Connect your passive speakers to the Left Channel and Right Channel output terminals.
- Ensure correct polarity (+ and -) for each speaker.

2.4 Audio Input Connection

The amplifier supports multiple audio input methods:

- **Bluetooth:** Pair your device wirelessly (see Section 3.1).
- **USB Input:** Connect a USB flash drive containing audio files to the USB port.
- **AUX Input:** Connect an external audio source using a 3.5mm audio cable to the AUX input port.

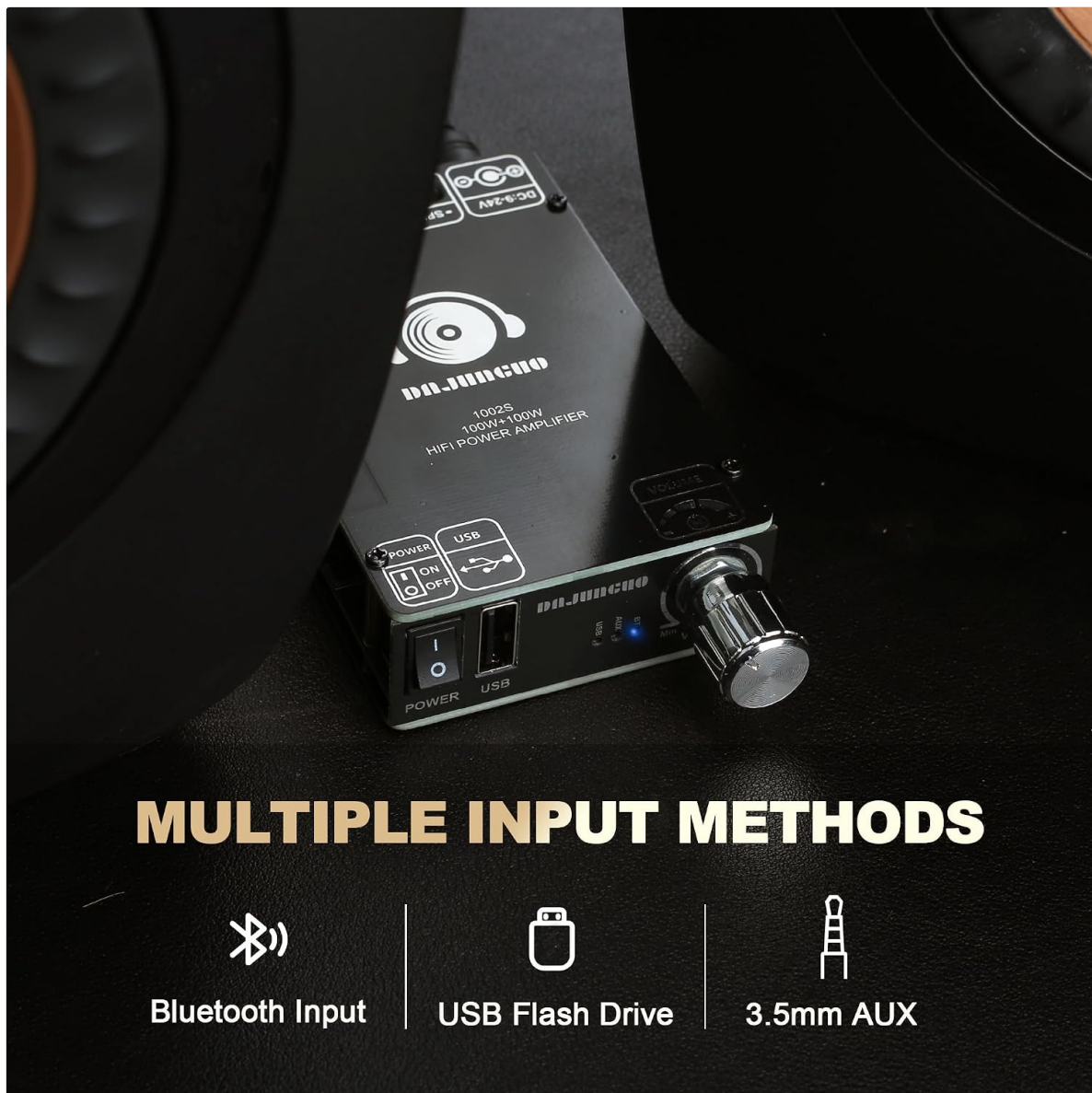


Image 2.3: Visual representation of the Bluetooth, USB, and 3.5mm AUX input options.

3. OPERATING INSTRUCTIONS

Once the amplifier board is set up, follow these instructions for operation.

3.1 Powering On/Off and Bluetooth Pairing

- **Power On:** Press the Power Switch to the ON position. Alternatively, long press the Multifunctional Knob.
- **Bluetooth Pairing:** After powering on, the amplifier will enter Bluetooth pairing mode. Search for "XY-Y50H" on your device's Bluetooth settings and connect. No pairing code is typically required.
- **Power Off:** Press the Power Switch to the OFF position. Alternatively, long press the Multifunctional Knob.

3.2 Multifunctional Knob Operations

The knob on the amplifier board serves multiple functions:

- **1 Click:** Play / Pause audio.
- **2 Clicks:** Next Song.
- **3 Clicks:** Previous Song.

- **4 Clicks:** Switch Input Mode (e.g., Bluetooth, USB, AUX).
- **5 Clicks:** Factory Reset.
- **Long Press:** Power OFF / ON.

3.3 Remote Control Usage

The included remote control allows for convenient adjustment of volume and song selection from a distance.

- Use the volume buttons to increase or decrease the audio output level.
- Use the track navigation buttons to skip to the next or previous song.

3.4 App Control (Optional)

An optional mobile application (search for "Sinilink" in app stores) may be available for additional customization, such as changing the Bluetooth name, setting a password, toggling prompt tones, and choosing EQ settings. Please note that the app's user agreement and privacy policy may be in a foreign language. Exercise caution and review permissions before use.

4. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the surface of the amplifier board. Avoid using liquid cleaners or solvents, as they can damage the electronic components.
- **Environment:** Operate the amplifier in a dry, well-ventilated area. Avoid exposure to extreme temperatures, humidity, or direct sunlight.
- **Handling:** Handle the board with care to prevent damage to components or connections.

5. TROUBLESHOOTING

If you encounter issues with your XY-Y50H amplifier board, refer to the following troubleshooting tips:

- **No Power:**
 - Ensure the power switch is in the ON position.
 - Verify that the DC power supply is correctly connected and providing 9-24V. A common issue is an inadequate power supply (e.g., less than 5A), which can cause intermittent power or poor performance.
 - Check the power adapter and cable for any damage.
- **No Sound Output:**
 - Confirm that speakers are correctly connected to the Left and Right Channel outputs with proper polarity.
 - Check the audio source (Bluetooth device, USB drive, AUX cable) for proper function and ensure it is playing audio.
 - Adjust the volume using the knob or remote control.
 - Ensure the correct input mode is selected (Bluetooth, USB, AUX) using the multifunctional knob (4 clicks).

- **Bluetooth Connection Issues:**

- Ensure the amplifier is in Bluetooth pairing mode (usually indicated by a flashing LED).
- Make sure your device's Bluetooth is enabled and within range.
- Forget the device from your phone's Bluetooth settings and try pairing again.
- Perform a factory reset (5 clicks on the multifunctional knob) if persistent issues occur.

- **Distorted Sound:**

- Reduce the volume level from both the amplifier and the audio source.
- Ensure the power supply meets the recommended specifications (9-24V DC, 5A or above). Insufficient power can lead to distortion at higher volumes.
- Check speaker impedance compatibility.

6. SPECIFICATIONS

Detailed technical specifications for the DAJUNGUO XY-Y50H Bluetooth Amplifier Board:

Feature	Specification
Model Number	XY-Y50H
Chip	TPA3116D2
Output Power	50W + 50W (Total 100 Watts)
Number of Channels	2 (Dual Channel)
Input Voltage	DC 9-24 Volts
Recommended Power Supply Current	5A or above
Bluetooth Version	5.1
Audio Input Methods	Bluetooth, USB Flash Drive, 3.5mm AUX
USB Decoding Format	WAV / FLAC / APE / MP3
Item Dimensions (L x W x H)	7 x 5 x 1.9 Centimeters
Mounting Type	Surface Mount
UPC / GTIN	194852393110

7. CONTACT AND SUPPORT

For any questions, technical assistance, or support regarding your DAJUNGUO XY-Y50H Bluetooth Amplifier Board, please refer to the seller's contact information provided at the point of purchase. Ensure you have your product model number (XY-Y50H) and purchase details ready when contacting support.

