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## NSY Audio NSY-PB02

# NSY Audio NSY-PB02 Portable Waterproof Bluetooth Speaker

Instruction Manual

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## 1. OVERVIEW

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The NSY Audio NSY-PB02 is a portable, waterproof Bluetooth speaker designed for both indoor and outdoor use. It features 80W RMS (120W Peak) sound output with dual subwoofers, tweeters, and passive radiators for rich bass and clear audio. With Bluetooth 5.3 connectivity, True Wireless Stereo (TWS) pairing, and a 30-hour playtime, it offers versatile audio solutions. The speaker is built with a durable, splash-proof, dustproof, and shockproof design, making it suitable for various environments.



Figure 1: Front view of the NSY Audio NSY-PB02 Portable Bluetooth Speaker.

## 2. WHAT'S IN THE BOX

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Ensure all items are present upon unboxing:

- Bluetooth Boombox (NSY-PB02) x1
- Adjustable Strap x1
- USB Type-C Cable x1
- Quick Start Guide x1

## 3. SETUP

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### 3.1 Charging the Speaker

Before first use, fully charge the speaker. Connect the provided USB Type-C cable to the charging port on the speaker and to a

compatible USB power adapter (not included). The speaker supports fast charging (30W) with an 11.1V input. A full charge takes approximately 3 hours.

### 3.2 Powering On/Off

Press and hold the power button (**U**) located on the top panel of the speaker to turn it on or off. An audible cue will indicate the power status.

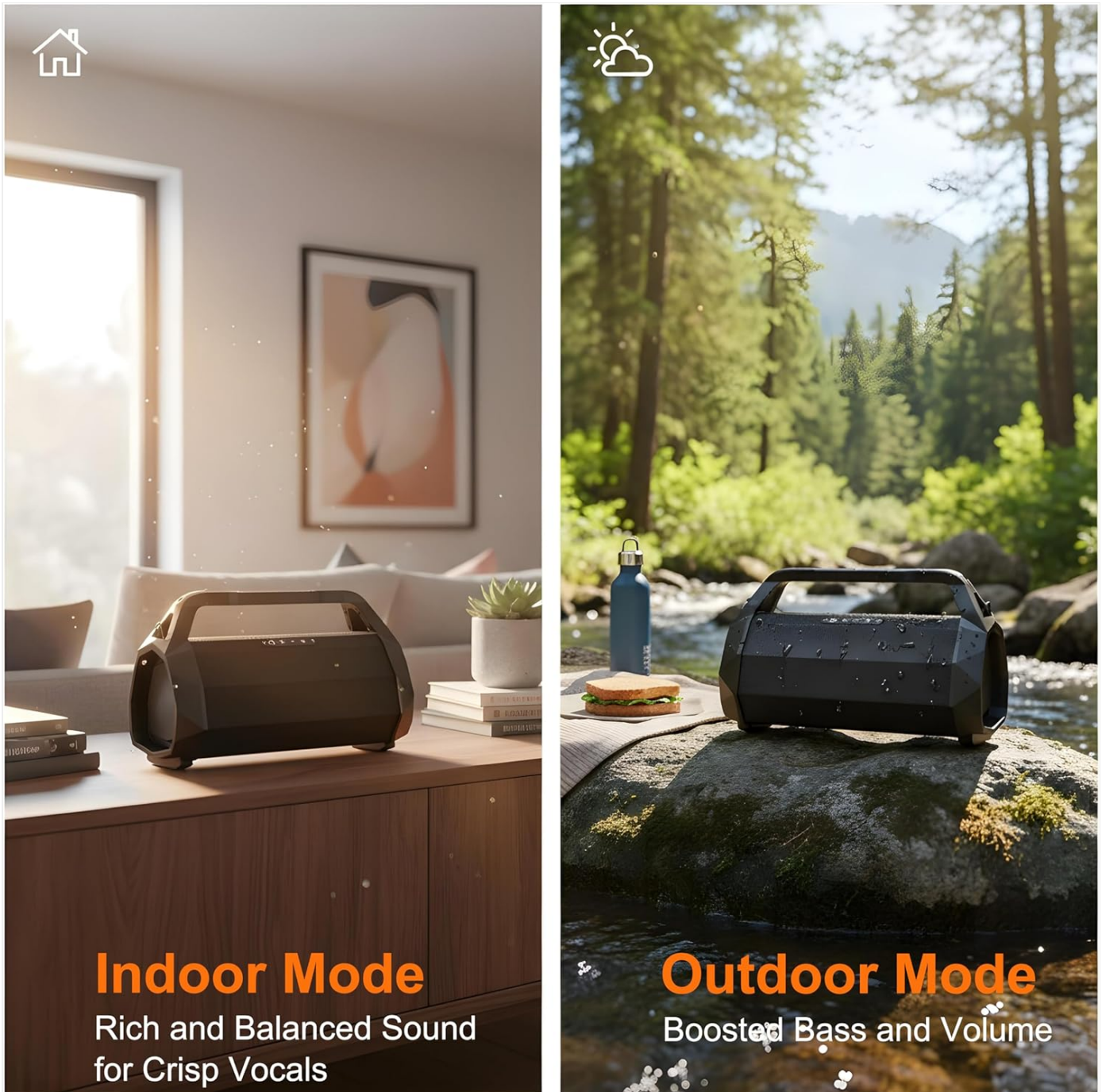


Figure 2: Control panel showing power and Bluetooth buttons.

### 3.3 Bluetooth Pairing

1. Turn on the speaker. It will automatically enter Bluetooth pairing mode, indicated by a flashing Bluetooth indicator light.
2. On your device (smartphone, tablet, laptop), enable Bluetooth and search for available devices.
3. Select "NSY-PB02" from the list of devices.
4. Once connected, the Bluetooth indicator light will become solid, and an audible confirmation will sound.

The speaker features Bluetooth 5.3 for faster pairing, lower power consumption, and a stable connection up to 100 feet (30

meters).

### 3.4 True Wireless Stereo (TWS) Pairing

To achieve immersive stereo sound, you can link two NSY-PB02 speakers wirelessly:

1. Ensure both speakers are powered on and not connected to any other Bluetooth device.
2. On one speaker (this will be the primary speaker), press the Bluetooth button twice. It will enter TWS pairing mode.
3. The primary speaker will automatically search for and connect to the second speaker.
4. Once connected, the Bluetooth indicator on both speakers will become solid, and an audible confirmation will sound.
5. Now, connect your device to the primary speaker via Bluetooth as described in Section 3.3.

### 3.5 Wired Connections (AUX, Micro SD, USB, Microphone)

The speaker supports multiple wired input options. Open the protective cover on the back of the speaker to access the ports.



Figure 3: Rear input panel with protective cover open.

- **AUX Input:** Connect an audio device using a 3.5mm audio cable to the AUX port. The speaker will automatically switch to

AUX mode.

- **Micro SD Card:** Insert a Micro SD card into the designated slot. The speaker will automatically play audio files from the card.
- **USB Input:** Insert a USB flash drive into the USB port. The speaker will automatically play audio files from the drive.
- **Microphone Input:** Connect a microphone to the microphone input port for karaoke or public address functions.

## 4. OPERATING THE SPEAKER

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### 4.1 Basic Controls

The top panel features touch controls for various functions:

- **Power Button (U):** Press and hold to power on/off.
- **Bluetooth Button (BT):** Press to enter pairing mode. Double-press for TWS pairing.
- **Volume Down (-):** Press to decrease volume.
- **Play/Pause (||):** Press to play or pause audio.
- **Volume Up (+):** Press to increase volume.

### 4.2 Indoor/Outdoor Mode (Dynamic EQ)

The speaker features a Dynamic EQ with two modes to optimize sound for different environments:

- **Indoor Mode:** Provides rich and balanced sound with crisp vocals, ideal for home theater, gaming, workshops, or offices.
- **Outdoor Mode:** Boosts volume and bass for open-air gatherings, ensuring sound carries effectively in outdoor spaces.

To switch between modes, press and hold the Play/Pause button (||) for 3 seconds.



Figure 4: Indoor and Outdoor EQ modes for optimized sound.

### 4.3 Voice Assistant Compatibility

The speaker is compatible with most smart voice assistants, such as Alexa. Ensure your device is connected via Bluetooth and activate your voice assistant as you normally would.

## 5. MAINTENANCE

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### 5.1 Cleaning

Wipe the speaker with a soft, damp cloth. Do not use abrasive cleaners or solvents, as they may damage the surface. Ensure all port covers are securely closed before cleaning or exposing to water.

### 5.2 Water and Dust Resistance

The NSY-PB02 is waterproof and dustproof. However, it is not designed for prolonged submersion. Always ensure the protective cover for the ports is securely closed when using the speaker near water or in dusty environments to maintain its resistance properties.

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Video 1: Demonstrates the speaker's water resistance by showing water being poured over it while playing music.

### 5.3 Battery Care

To prolong battery life, avoid fully discharging the speaker frequently. Store the speaker in a cool, dry place when not in use for extended periods. Charge the battery at least once every three months to prevent deep discharge.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Speaker does not power on.	Low battery.	Charge the speaker using the provided USB Type-C cable.
Cannot pair via Bluetooth.	Speaker is not in pairing mode or already connected to another device.	Ensure the speaker is in Bluetooth pairing mode (flashing indicator). Disconnect from any other device. Ensure your device's Bluetooth is on and visible.
No sound or low volume.	Volume too low on speaker or connected device; incorrect input mode.	Increase volume on both the speaker and your connected device. Verify the correct input mode (Bluetooth, AUX, etc.) is selected.
TWS pairing fails.	Speakers are too far apart or already connected to other devices.	Ensure both speakers are within close proximity and not connected to any other Bluetooth devices before initiating TWS pairing.
Battery life is shorter than expected.	High volume usage; streaming music wirelessly.	Playing audio at higher volumes consumes more power. Streaming music wirelessly typically consumes more power than playing from a connected device via an AUX cable.

## 7. SPECIFICATIONS

Feature	Detail
Model Name	NSY-PB02
Speaker Type	Indoor/Outdoor Loudspeaker Boombox
Connectivity Technology	Bluetooth 5.3, Auxiliary, TF-Card, USB
Audio Output Mode	Stereo (2.2 Channel)
Speaker Maximum Output Power	120 Watts (Peak) / 80 Watts (RMS)
Woofer Diameter	4 Inches
Tweeter Diameter	0.78 Inches
Frequency Response	20 KHz
Signal-to-Noise Ratio	85 dB
Power Source	Battery Powered (1 Lithium Ion battery included)
Battery Life	Up to 30 Hours (at moderate volume)
Charging Time	3 Hours
Bluetooth Range	Up to 100 Feet (30 meters)

Feature	Detail
Water Resistance Level	Waterproof (Splash-proof, Dustproof, Shockproof)
Material	Acrylonitrile Butadiene Styrene (ABS)
Product Dimensions	6"D x 16"W x 9"H
Item Weight	8 Pounds

## 8. WARRANTY & SUPPORT

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### 8.1 Warranty Information

The NSY Audio NSY-PB02 Portable Waterproof Bluetooth Speaker comes with a 1-year warranty from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters. Please retain your proof of purchase for warranty claims.

### 8.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please visit the official NSY Audio Store on Amazon: [NSY Audio Store](#).

