

## ALTO TS12S

# ALTO TS12S 2500W 12" Subwoofer User Manual

Model: TS12S | Brand: ALTO Professional

## 1. INTRODUCTION

The ALTO TS12S is a 2500W 12-inch powered subwoofer designed to extend the bass response of virtually any full-range speaker system. It provides a robust low-frequency range, enhancing the impact of live performances and audio playback. Engineered for durability and high-power performance, the TS12S features a premium internally braced composite cabinet and a 12-inch driver with a 3-inch voice coil transducer.

This subwoofer is portable and lightweight, equipped with built-in handles for easy transport and installation. It includes user-selectable DSP EQ tunings and phase alignment options to optimize its performance with various setups and environments. Connectivity is provided via (2) XLR+1/4-inch combo inputs and (2) XLR thru outputs for linking to other audio equipment, along with electronic clip, thermal, and transducer overdrive protection for reliable operation.



Figure 1: Front-side view of the ALTO TS12S powered subwoofer. This image displays the robust grille and the ALTO Professional logo, indicating its professional audio design.

## 2. FEATURES

The ALTO TS12S subwoofer incorporates several key features designed for optimal audio performance and ease of use:

- **Superior Sound:** Delivers 2500W of power with a 12-inch driver, 3-inch voice coil, and high-efficiency Class D amplifier for extended low-end frequencies.
- **DSP EQ Modes:** Features a Speaker Use Button with three selectable DSP EQ modes: EQ Off, Live, and DJ, allowing sound optimization for different applications.
- **Phase Alignment Control:** Offers 3 phase alignment options to compensate for low-frequency cancellation, ensuring seamless integration with full-range speakers.
- **Simplified Setup:** Portable and lightweight (57.1 lbs) PA cabinet with integrated handles and a 36mm pole socket for easy transport and installation.
- **Versatile Connectivity:** Equipped with (2) XLR+1/4-inch combo inputs and (2) XLR thru outputs for flexible linking and system integration.
- **Durable Construction:** Rugged, internally-braced front-ported MDF cabinet with a mark-resistant splatter-spray finish, built for the demands of live performance.

- **Protection Circuitry:** Includes electronic clip, thermal, and transducer overdrive protection for enhanced reliability and longevity.

# 2500W OF THUNDEROUS BASS



## 12-INCH POWERED SUBWOOFER WITH HIGH-EFFICIENCY CLASS D AMPLIFIER

Figure 2: The ALTO TS12S subwoofer highlighting its 2500W power output and 12-inch driver with a Class D amplifier, emphasizing its capability to produce powerful bass.

### 3. PACKAGE CONTENTS

Please ensure all items listed below are present in your package:

- ALTO TS12S Powered Subwoofer
- Power Cable
- Software Download Card (if applicable)
- User Guide (this document)
- Safety & Warranty Manual

### 4. SETUP



## 4.1 Physical Placement

The TS12S is designed for floor standing placement. For optimal bass response, position the subwoofer on a stable, flat surface. Avoid placing it directly against walls or in corners, as this can lead to exaggerated or muddy bass. Experiment with placement to find the best sound for your environment.

The integrated 36mm pole socket on the top of the subwoofer allows for mounting a full-range PA speaker directly above it, creating a compact and powerful sound system. Ensure the pole and speaker are securely seated.



Figure 3: The ALTO TS12S subwoofer demonstrating its portability and the integrated pole socket for easy setup with a full-range speaker.

## 4.2 Connections

Refer to the rear panel diagram for connection points:

1. **Inputs (XLR+1/4-inch Combo):** Connect your audio source (e.g., mixer, audio interface) to these inputs using standard XLR or 1/4-inch TRS cables. The TS12S has two inputs for stereo or dual mono signals.
2. **Thru Outputs (XLR):** These outputs pass the full-range audio signal from the inputs to other speakers (e.g., full-range PA speakers). Use XLR cables to connect these outputs to the inputs of your main PA speakers.

3. **Power Input:** Connect the included power cable to this input and then to a grounded electrical outlet.

# FEATURE-PACKED



- |  |  |
|--|--|
| <b>1</b> USER-SELECTABLE<br>EQ TUNINGS: OFF, LIVE & DJ       | <b>3</b> (2) XLR+1/4" COMBO INPUTS           |
| <b>2</b> PHASE ALIGNMENT SELECTOR<br>SWITCH: 0, 90, 180, 270 | <b>4</b> (2) XLR THRU OUTPUTS<br>FOR LINKING |

Figure 4: Detailed view of the ALTO TS12S rear panel, illustrating the various input, output, and control options for audio signal management.

## 5. OPERATING INSTRUCTIONS

### 5.1 Powering On/Off

After all connections are made, ensure the volume knob is set to its minimum position. Connect the power cable to a grounded AC outlet. Flip the power switch to the 'ON' position. To power off, reverse this process, turning the unit off before disconnecting power.

### 5.2 Volume Control

The 'VOLUME' knob on the rear panel controls the overall output level of the subwoofer. Start with the volume at a low setting and gradually increase it to achieve the desired bass level, ensuring it blends well with your full-range speakers.

### 5.3 DSP EQ Modes

The TS12S features a 'SPEAKER USE' button to select between three DSP EQ modes, optimizing the subwoofer's response for different applications:

- **EQ Off:** Provides a flat frequency response, suitable for custom tuning or when an external EQ is used.
- **Live:** Optimized for live music performances, offering a balanced and punchy bass response.
- **DJ:** Tailored for DJ applications, providing a more pronounced and impactful low-end for dance music.

5.4 Phase Alignment

The 'PHASE ALIGNMENT' switch allows you to adjust the phase of the subwoofer's output relative to your full-range speakers. This is crucial for preventing low-frequency cancellation and ensuring a cohesive sound. The available settings are 0, 90, 180, and 270 degrees. Experiment with these settings to find the one that provides the most impactful and clear bass in your listening environment.



Figure 5: A graphical representation of the subwoofer's frequency response, indicating how it processes low-end audio signals.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ALTO TS12S subwoofer.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the subwoofer. Avoid using abrasive cleaners, solvents, or any liquids that could seep into the enclosure and damage internal components.
- **Storage:** When not in use for extended periods, store the subwoofer in a dry, temperate environment, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Regularly inspect all audio and power cables for any signs of wear, cuts, or damage. Replace damaged cables immediately to prevent electrical hazards or signal loss.
- **Ventilation:** Ensure that the subwoofer's vents are not obstructed to allow for proper airflow and prevent overheating.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your TS12S subwoofer.

Problem	Possible Cause	Solution
No sound output	No power; Incorrect connections; Volume too low; Input source issue	Check power cable and outlet; Verify all audio connections; Increase volume gradually; Ensure audio source is active and sending signal.
Distorted sound	Input level too high; Speaker placement issues; Damaged cable	Reduce input level from source or subwoofer volume; Adjust subwoofer placement; Replace faulty cables.

Problem	Possible Cause	Solution
Lack of bass or weak bass	Incorrect phase alignment; DSP EQ mode not suitable; Subwoofer volume too low	Adjust 'PHASE ALIGNMENT' switch; Select appropriate 'SPEAKER USE' EQ mode (e.g., DJ); Increase subwoofer volume.
Overheating	Insufficient ventilation; Prolonged high-volume operation	Ensure clear space around vents; Reduce volume or allow unit to cool down.

## 8. SPECIFICATIONS

Detailed technical specifications for the ALTO TS12S subwoofer:

Specification	Detail
Model Name	TS12S
Speaker Type	Powered Subwoofer
Speaker Maximum Output Power	2500 Watts
Woofer Diameter	12 Inches
Audio Driver Type	Dynamic Driver
Frequency Response	95 Hz (Low-pass filter adjustable via DSP)
Connectivity Technology	(2) XLR+1/4" (6.35 mm) inputs, (2) XLR thru outputs
Audio Output Mode	Mono
Special Feature	Class D Amplifier, DSP EQ Modes, Phase Alignment Control
Mounting Type	Floor Standing (with integrated 36mm pole socket)
Material	Metal, Plastic (MDF cabinet)
Color	Black
Product Dimensions (D x W x H)	17.9" x 18.1" x 19.9" (45.5 cm x 46 cm x 50.5 cm)
Item Weight	57.1 lbs (25.9 kg)
Power Source	Corded Electric
Manufacturer	inMusic Brands Inc.
UPC	816311012102

## 9. WARRANTY INFORMATION



The ALTO TS12S subwoofer comes with a **Limited Warranty**. For detailed information regarding the terms, conditions, and duration of your warranty, please refer to the 'Safety & Warranty Manual' included in your product package. You may also visit the official ALTO Professional website for the most current warranty policy and registration information.

## 10. SUPPORT


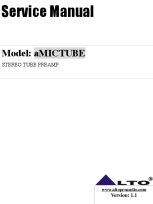

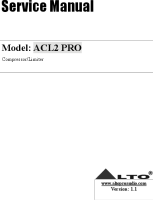
For further assistance, technical support, or to download the latest software and documentation, please visit the official ALTO Professional website:

[ALTO Professional Official Website](#)

You can also find additional resources and contact customer service through the brand's store on Amazon:

[ALTO Professional Amazon Store](#)

### Related Documents - TS12S

	<p><a href="#">Alto MAC2.2/2.3/2.4 Service Manual - Technical Specifications &amp; Diagrams</a></p> <p>Comprehensive service manual for Alto MAC2.2, MAC2.3, and MAC2.4 stereo amplifiers, including specifications, schematics, wiring diagrams, and test procedures.</p>
	<p><a href="#">Alto aMICTUBE Stereo Tube Preamp Service Manual</a></p> <p>Detailed service manual for the Alto aMICTUBE Stereo Tube Preamp, featuring specifications, block diagrams, schematic diagrams, PCB layouts, wiring diagrams, test procedures, electrical parts lists, and exploded views for maintenance and repair.</p>
	<p><a href="#">Alto CYCLONE Series Service Manual: CYCLONE160/240/320</a></p> <p>Official service manual for the Alto CYCLONE series audio mixers (CYCLONE160, CYCLONE240, CYCLONE320), detailing specifications, diagrams, and parts for repair and maintenance.</p>
	<p><a href="#">Alto ACL2 PRO Compressor/Limiter Service Manual</a></p> <p>Comprehensive service manual for the Alto ACL2 PRO Compressor/Limiter, covering specifications, block diagrams, schematics, PCB layouts, wiring diagrams, parts lists, and troubleshooting information.</p>





### [Manuale Operativo Mixer ALTO S-8: Guida Completa a 8 Canali](#)

Esplora il manuale operativo del mixer ALTO S-8. Scopri installazione, connessioni, controlli, caratteristiche tecniche e specifiche per ottimizzare l'uso del tuo mixer audio professionale a 8 canali.



### [Alto TS112C Portable Columnar Array Loudspeaker Quickstart Guide](#)

A quickstart guide for the Alto TS112C Portable Columnar Array Loudspeaker, covering setup, power input, features, and operation in multiple languages.