



TS308 TS312 **TS310 TS315**

User Guide

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User Guide (English)

Introduction

Thank you for purchasing the TS3 Series loudspeaker. At Alto Professional, performance and reliability mean as much to us as they do to you. That's why we design our equipment with only one thing in mind—to make your performance the best it can be.

Box Contents

TS3 Series Loudspeaker

Power Cable

User Guide

Safety & Warranty Manual

Support

For the latest information about this product (system requirements, compatibility information, etc.) and product registration, visit altoprofessional.com.

For additional product support, visit altoprofessional.com/support.

Important Safety Precautions

Please note: Alto Professional and inMusic are not responsible for the use of its products or the misuse of this information for any purpose. Alto Professional and inMusic are not responsible for the misuse of its products caused by avoiding compliance with inspection and maintenance procedures. Please also refer to the included safety and warranty manual for more information.



Caution: To reduce the risk of electric shock, do not connect a TS3 loudspeaker to a power outlet while the grille is removed.

Stand-Mounting

- Always install loudspeakers in accordance with applicable electrical and building codes.
- Install the loudspeaker according to its maximum weight. Check the specifications of your stand or pole to ensure it can support the loudspeaker's weight. Also, observe all safety precautions specified by the manufacturer.
- Do **not** mount multiple loudspeakers on the same stand or pole.
- Always verify that the stand or pole is on a flat, level, and stable surface. Also, fully extend the legs of tripod-style stands, and ensure its legs do not present a trip hazard.
- Inspect the stand (or pole and associated hardware) before each use and do not use equipment with worn, damaged, or missing parts.
- Always be cautious in windy, outdoor conditions. You may need to place additional weight (e.g., sandbags) on stand's base to improve stability. Do not attach banners or similar items to any part of a loudspeaker system. Such attachments could act as a sail and topple the system.
- Unless you are confident that you can handle the loudspeaker's weight, ask another person to help you lift it onto the stand or pole.
- Make sure your cables are out of the way of performers, production crew, and audience so they will not trip over them, pulling the loudspeaker off the stand or pole.

Sound Level

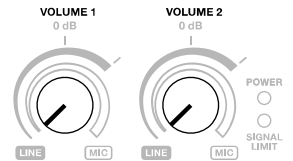
Permanent hearing loss may be caused by exposure to extremely high noise levels. The U.S. Occupational Safety and Health Administration (OSHA) has specified permissible exposures to certain noise levels. According to OSHA, exposure to high sound pressure levels (SPL) in excess of these limits may result in hearing loss. When using equipment capable of generating high SPL, use hearing protection while such equipment is under operation.

Hours per day	SPL (dB)	Example
8	90	Small gig
6	92	Train
4	95	Subway train
3	97	High-level desktop monitors
2	100	Classical music concert
1.5	102	Riveting machine
1	105	Machine factory
0.5	110	Airport
0.25 or less	115	Rock concert

Setup

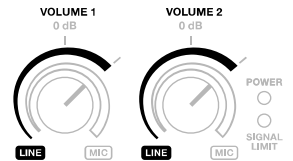
Volume Control

The TS3 Series loudspeaker accepts both line-level and mic-level audio sources. Before connecting your audio source, turn the **Volume** knob to the minimum position (fully counter-clockwise).



Line-Level Audio Source

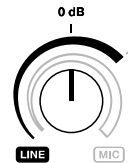
When using an audio source such as a mixer, CD/MP3 player or audio preamp, follow the **outer/Line** level band indicator.



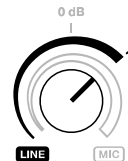
If the **Signal Limit LED** is on, do **not** advance the **Volume** knob any further. Doing so may damage your TS3 loudspeaker.



In most circumstances, you will not need to turn the volume beyond **0 dB**.



If your audio source has unusually low output, you may turn the **Volume** knob past **0 dB**, but not past the **Signal Limit indicator** (as explained above).



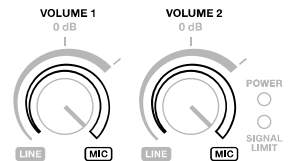
Mic-Level Audio Source

Important: If you are using an instrument with active preamp, treat the instrument as a line-level audio source (as explained above).

When using a microphone or instrument audio source, follow the **inner/Mic** level band indicator.

Because the mic and instrument level is typically lower than a line level, you can use the full rotation of the **Volume** knob.

As you turn up the **Volume** knob, please observe the **Signal Limit indicator**. If the **Signal Limit LED** is on, do **not** advance the **Volume** knob any further. Doing so may damage your TS3 loudspeaker.



Examples

Items not listed under [Introduction > Box Contents](#) are sold separately.

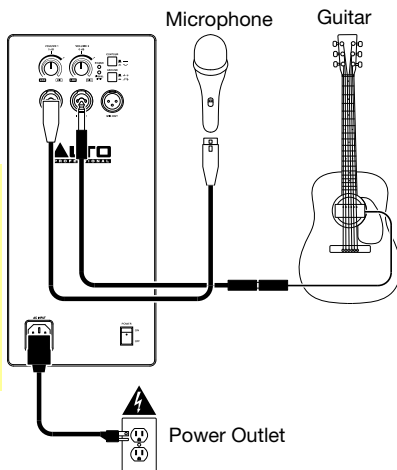
Note: These examples show the rear panel used by the TS310, TS312, and TS315 models, though all four models in the TS3 Series have the same input and output.

Example A: One Loudspeaker

Connect a dynamic microphone to the **Input 1** using an XLR or 1/4" (6.35 mm) TRS cable. Connect a guitar with an active pickup to the **Input 2** using a 1/4" (6.35 mm) TS or TRS cable (see your guitar's documentation for cable requirements). For **Input 2**, do not turn the **Volume** knob past the **0 dB** position.

Note: When using the TS3 Series loudspeaker with a guitar, we recommend using one with **active pickups** rather than passive pickups. If you use a guitar with passive pickups, connect it to an external preamp or direct input (DI) box, and connect the line-level output to the loudspeaker.

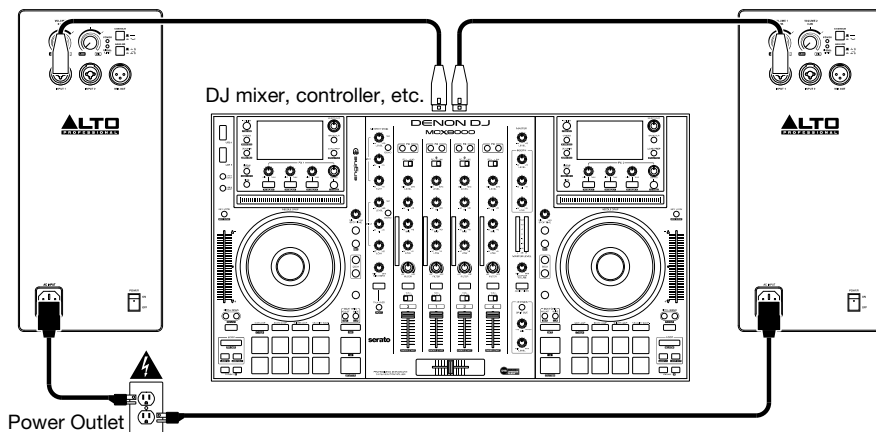
Also, use **dynamic microphones** with the TS3 Series loudspeaker rather than condenser microphones. If you use a microphone that requires +48V of phantom power, connect it to an external phantom power supply before connecting it to the loudspeaker.



Example B: Two Loudspeakers

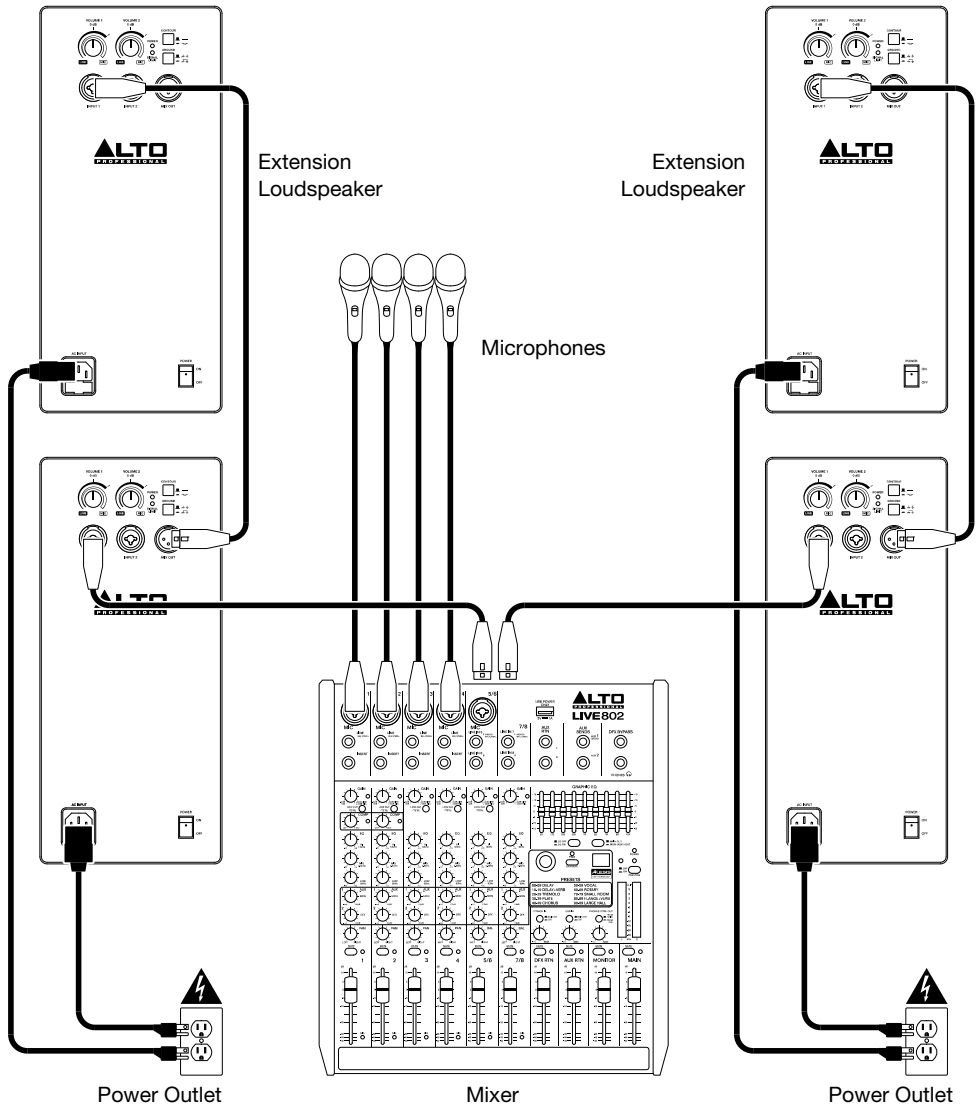
Connect the left and right output of your DJ mixer, controller, etc. to **Input 1** of each loudspeaker using XLR or 1/4" (6.35 mm) TRS cables. Do not turn the **Volume** knobs past the **0 dB** position.

Tip: To send the same mix to both TS3 Series loudspeakers, connect both channels of your DJ mixer, controller, etc. to the **Input 1** and **Input 2** of one loudspeaker, and then connect that loudspeaker's **Mix Out** to the **Input 1** of the other loudspeaker. Both TS3 Series loudspeakers will then play identical summed mono mixes.



Example C: Two Loudspeakers + Two Extensions

Connect each of your mixer's main outputs to **Input 1** on each TS3 loudspeaker. Connect the **Mix Out** of each TS3 loudspeaker to an input of each extension loudspeaker. Do not turn any of the **Volume** knobs past the **0 dB** position.



Features

Rear Panel

1. **AC Input:** Use the included power cable to connect this input to a power outlet. Make sure the **Power Switch** is set to **off** when connecting or disconnecting the cable.
2. **Fuse:** If the unit's fuse is broken, lift this tab to replace the fuse. Replace it with a fuse with an appropriate rating (printed under the unit's power cable input). Using a fuse with an incorrect rating can damage the unit and/or fuse.

Note: On the **TS308** model, the fuse is located next to the **power switch** rather than the AC input.

3. **Power Switch:** Use this switch to power the loudspeaker on or off. Make sure the **Volume** knob is set to its minimum (counterclockwise) position before turning it on.
4. **Power LED:** This LED lights up when the loudspeaker is on.
5. **Volume:** Turn this knob to adjust the loudspeaker's volume.

When using an audio source such as a mixer, CD/MP3 player or audio preamp, follow the **outer/Line** level band indicator. In most circumstances, you will not need to turn the volume beyond **0 dB**. If your audio source has unusually low output, you may turn the **Volume** knob past **0 dB**, but not past the **Signal Limit indicator**.

When using a microphone or instrument audio source, follow the **inner/Mic** level band indicator. Because the mic and instrument level is typically lower than a line level, you can use the full rotation of the **Volume** knob.

Please see [Setup > Volume Control](#) to learn more.

6. **Input:** Use a standard XLR or 1/4" (6.35 mm) cable (not included) to connect your audio source to this input.
7. **Mix Out:** Use a standard XLR cable (not included) to connect this output to the input of another loudspeaker (i.e., another TS3 loudspeaker).
8. **Signal/Limit LED:** This LED lights up green when an audio signal is sent to the loudspeaker—it flashes at lower levels and lights solidly at higher levels. The LED lights up red when output limit/protection is active—if the LED is lit red continuously, reduce the volume of your audio source.
9. **Contour:** Engage (depress) this button to emphasize low and high frequencies by **+3 dB**. Disengage (raise) the switch for a flatter response for live performance or for maximum output.
10. **Ground Switch:** Engage (depress) this switch to reduce hum or noise.

